Stantec Consulting Services Inc.
20 Church Street – Suite 1710
Hartford CT 06103
Tel: (860) 948-1628 Fax: (860) 948-1629
stantec.com

Stantec

Via Courier **August 3, 2010**

Ms. Kimberley N. Tisa
PCB Coordinator/Environmental Scientist
Office of Site Remediation and Restoration
US EPA Region 1
1 Congress Street, Suite 1100 (CPT)
Boston, MA 02114-2023

Re: Hybrid Self Implementing Plan (SIP)/Risk Based Approval Plan
PCB Soil Remediation
78-98 Rebeschi Drive
North Haven, Connecticut

Dear Ms. Tisa:

Stantec Consulting Services, Inc. is pleased to submit this Remedial Action Plan (RAP) for soil remediation at 78-98 Rebeschi Drive in North Haven, Connecticut.

As required by 40 CFR Part 761.61 (a)(3)(E), a certification is also attached and signed by the property owner (Andrew Dixon) and responsible party (WEI North Haven Limited Partnership). We have recently found that the Connecticut Resource Recovery Authority (CRRA) Hartford Landfill can accept PCB wastes of 30 parts per million or less at a sharp discount to regular disposal costs for landfill closure purposes. We anticipate that a large volume of the waste that we plan on excavating can be disposed at this facility. As a result, we would greatly appreciate expedited review of the work plan so that we can exploit this discounted disposal window.

Please contact me at (860) 948-1628 if you have any questions.

Very Truly Yours,

John H. Insall, LEP
Senior Project Manager

Attachments: Remedial Action Plan (RAP) for Soil Remediation

REMEDIAL ACTION PLAN FOR PCB IMPACTED SOIL

Former U.S. Surgical Site
78-98 Rebeschi Drive
North Haven, Connecticut

Remediation ID No. 4624

July 29, 2010

Prepared by

Stantec Consulting Services Inc.
20 Church Street – Suite 1710
Hartford CT 06103
Tel: (860) 948-1628 Fax: (860) 948-1629
stantec.com

Stantec

TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Purpose

The purpose of the Remedial Action Plan (RAP) is to propose a plan for the removal and management of soil impacted with polychlorinated biphenyls ("PCBs") in accordance with the remediation requirements for PCBs contained in 40 CFR Part 761 and State of Connecticut regulations. This RAP has been prepared as a risk based cleanup plan submitted to EPA pursuant to 40 CFR 761.61(c) for soils beneath the 98 Rebeschi Drive building where PCBs> 10 parts per million (ppm) are proposed to remain, and a self implementing procedure (SIP) under 40 CFR 761.61(a) for soils in exterior soil locations, where PCBs >10 ppm will be removed.

The plan is a risk based approval plan because it presents a strategy to manage PCBs >10 ppm in place under the existing buildings. By definition, these are considered high occupancy areas, despite the fact they are inaccessible, because workers in the building work 40-hour shifts within the building. For exterior soils where PCBs >10 ppm will be removed, the RAP specifies a mechanism to complete remediation in these areas following the prescriptive remediation requirements of 40 CFR 761 Part 761(a), where the soils are considered low occupancy because workers do not work in these areas, other than for transient access to buildings.

The RAP is also designed to bring extractable total petroleum hydrocarbons (ETPH)(coincident with low levels of PCBs), into compliance with regulatory criteria under the State of Connecticut Remediation Standard Regulations (§22a-133k-1 through 22a-133k-3)("RSRs").

The RAP includes several components. These include the excavation of PCBs >10 ppm in paved parking areas, excavation of PCB impacted soil >10 ppm beneath landscaped areas outside of building footprints, excavation of ETPH impacted soil that is coincident with PCBs in the same areas, management of remaining PCBs <10 ppm and ETPH in place outside of building footprints, and management of PCBs >10 ppm and ETPH beneath the footprint of the existing buildings. To manage ETPH exceeding the Industrial/Commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC), an Engineered Control Lite (ECL) is proposed.

The RAP discusses excavation strategies, in-situ management of residual PCBs and ETPH, and the use of an ECL to achieve compliance with the RSRs for ETPH. Specifically, the RAP will address how the risk based RAP approval will be protective of human health and the environment, and how the ECL will address ETPH exceedances of both the IC DEC and GB PMC.

An Environmental Land Use Restriction (ELUR) is then proposed to avoid disturbance of the ECL and restrict the site to Industrial/Commercial use.

1.2 Scope

The RAP prepared by Stantec was designed to address PCBs and ETPH in soil at the site. ETPH impacted soil has resulted in a minor release of benzene and other aromatic volatile organic compounds (VOCs) to groundwater in the vicinity of the 78 Rebeschi Drive southern

parking lot. The RAP also addresses low level VOC impacted groundwater in the release areas, and describes how the same concentrations of VOCs in groundwater demonstrate that ETPH is not leaching constituents that create an unacceptable risk to human health and the environment.

1.3 Project Structure

Stantec Consulting Services Inc. has been retained by WEI North Haven Limited Partnership to assist with technical evaluation of PCBs, ETPH, and related VOCs in the environment.

Any technical questions regarding the work plan shall be directed to the preparer of this plan:

John Insall, LEP
Stantec Consulting Services, Inc.
20 Church Street, Suite 1710
Hartford, CT 06103
Ph:860) 948-1628 Ext. 7113
Fax: (860) 948-1629
Cell: (860) 216-7900
john.insall@Stantec.com

Approvals or written comments or decisions regarding this work plan shall be directed to:

Adam D. Winstanley
WEI North Haven Limited Partnership
c/o Winstanley Enterprises LLC
150 Baker Avenue Extension, Suite 303
Concord, MA 01742

2.0 BACKGROUND INFORMATION

2.1 Site Description

The property consists of 13.6-acres of land and two commercial and light industrial structures. The property is located at 78-98 Rebeschi Drive in North Haven, New Haven County, Connecticut (latitude 41.3438, longitude -72.8663). Site features include two small drainage structures (called ponds) that are used for the discharge of stormwater from adjacent Interstate 91, small wetland like areas associated with each, paved parking areas, and landscaped lawns.

The buildings are currently occupied by Petra Construction (office and shop), the Harding Company (steel products), the former Aquaware of America, Inc. plumbing supply and showroom (until 2010)(now vacant), Exide Battery (battery sales), and Not the Same Stuff (warehouse and fulfillment). Former tenants include United States Surgical Company (USSC)(repair laboratory), Connecticut Handivan (ambulatory vehicle garage), and Rebeschi Motorsports (racing equipment and parts).

2.2 Site History

From the 1920s to late 1950s, the site was occupied by the Montowese Brick Company. The brick company used on-site clay deposits as feed stock for the brick plant. The clay was excavated from the eastern, central, and western portions of the site creating a pond which covered most of the property. The brick plant operated a building at the western edge of 78-98 Rebeschi Drive. Most of the brick plant was located off-site and in the approximate location of I-91 (adjacent to the west).

In the late 1950s, the Montowese Brick Company ended their operations and the Montowese Tool Company began operating a tool company in the building. The Montowese Tool Company operated at the western edge of the site until 1972 when the building was demolished. The remainder of the site remained as a pond until the 1980s. In the 1980s, the Elm City Construction Company filled the ponds and used the site to store sand, gravel, and rock. In 1988, Paul Rebeschi purchased the site and constructed the existing light commercial and industrial buildings. The buildings have been used by a variety of tenants since construction. The United States Surgical Company (USSC) operated a small repair shop and printing facility at the site from 1988 to 1998. USSC generated small quantities of hazardous waste. As a result, the site was identified as an Establishment and subject to the Connecticut Transfer Act.

In 1995, Rizzo Associates conducted soil and groundwater sampling in connection with a real estate transfer. Rizzo Associates identified artificial fill and low levels of petroleum in the fill.

During a 1995 property transfer, the certifying party filed a Form I to indicate that no releases of hazardous wastes had occurred at the site (releases of petroleum did not preclude filing of a Form I under the Transfer Act in 1995).

In 2001, an additional soil and groundwater investigation was conducted by Rizzo Associates to support another property transfer. Petroleum hydrocarbons were again detected in soil and groundwater and attributed to the artificial fill. Chlorinated solvents were also detected in groundwater at the southern-side of the site. Rizzo Associates attributed the chlorinated solvents to an off-site release. The certifying party filed a Form I in connection with the 2001 property transfer since no hazardous waste releases were identified (releases of petroleum still did preclude filing a Form I under the Transfer Act in 2001).

In 2004, the DEP rejected the 2001 Form I filing due to the presence of chlorinated solvents in wells at the southern side of the site (RIZ-7, RIZ-8, RIZ-9, and RIZ-10). In response, the certifying party (WEI North Haven Limited Partnership) submitted a Form III and Environmental Condition Assessment Form (ECAF). In 2004 and 2005, Rizzo Associates conducted additional investigations and confirmed that no on-site source of chlorinated solvents existed. The additional investigations included soil sampling, groundwater sampling, and an analysis of vertical hydraulic gradients and groundwater flow patterns for both shallow and deep groundwater. Rizzo Associates again determined that the source of chlorinated solvents was the off-site Aura/Arber/Eton Fujikura site. A review of the historical data prepared by SECOR suggested that the occurrence of chlorinated VOCs in wells at the south-side of 78-98 Rebeschi Drive had a strong correlation to the operation of an air sparging and soil vapor extraction (SVE) system at the Aura/Arber/Eton Fujikura site. As a result, it appears that the VOCs in groundwater may have been driven by the nearby air sparging/SVE system.

During the excavation of petroleum impacted soil in 2007 to the north of the 98 Rebeschi Drive building, STANTEC collected a waste characterization sample to facilitate the disposal of petroleum impacted soil. The analytical results identified PCBs in the soils that were excavated. The finding prompted additional investigation for PCBs during two episodes. The first episode was a site-wide soil boring and sampling effort designed to identify areas where PCBs and ETPH were present. After the first sampling episode, STANTEC discussed the site with Kim Tisa of EPA Region 1. Based on discussions with EPA, STANTEC developed a PCB sampling protocol to evaluate PCBs in three zones where PCBs had been detected. The second episode followed a protocol that included a 20 x 20 foot soil sampling grid in areas where low levels of PCBs had been detected Based on the results of these investigations, STANTEC identified PCBs above 10 ppm in three areas at the site, and PCBs above 50 ppm immediately adjacent and beneath a small portion of 98 Rebeschi Drive.

2.3 Indoor Air Sampling

STANTEC conducted indoor air sampling over an eight hour period in June 2009. The sampling was conducted to evaluate the potential for PCBs in indoor air beneath the former Connecticut Handivan Garage/Petra Construction Garage in the 98 Rebeschi Drive building. During the sampling period, exterior doors remained closed. The sampling was conducted using NIOSH Method 5503 and analyzed by a ACGIH/NVLAP certified laboratory. PCBs were below analytical detection limits in all samples. To verify these results and achieve lower detection limits, STANTEC conducted additional sampling for PCBs in April 2010 using high volume samplers and EPA Method TO-4A. These samples were collected with high-volume polyurethane foam (PUF) filter canisters in accordance with the Methodology suggested by EPA to detect ultra low levels of PCBs in air. As a result, we were able to achieve detection limits of

0.3 to 0.4 nanograms per cubic meter of air (ng/m^3). A control sample of outdoor ambient air was also collected, since PCBs exist in ambient air. The resulting air sampling data indicate that PCBs exist in both indoor air and outdoor ambient air at 1 to 2 ng/m^3. Since ambient air and indoor air contain PCBs at similar levels, the difference is not likely to be statistically significant. The PCB concentrations detected in both indoor and ambient air are an order of magnitude lower than the EPA published prudent public health levels of PCBs in school indoor air for adults age 19 and older of 450 ng/m^3. Consequently, PCBs in indoor air are not posing an unacceptable risk to building occupants.

2.4 Groundwater Sampling Data

STANTEC collected three groundwater samples from existing wells near the PCB and ETPH release areas in April 2010. The sampling was conducted using low flow sampling procedures, following DEP guidance documents. The wells sampled were selected to represent groundwater near the highest PCB and ETPH concentrations measured at the site. These include RIZ-17, RIZ-6, and RIZ-15A. Samples were analyzed using Reasonable Confidence Protocols (RCPs).

The samples were collected to measure current aromatic VOC concentrations, and determine if PCBs had been released to groundwater. The data indicate that VOC concentrations have declined over time. Currently, aromatic VOCs such as benzene, toluene, xylenes, isopropyltoluene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene exist only at RIZ-15A at concentrations that are below the Surface Water Protection Criteria (SWPC) and residential and industrial/commercial volatilization criteria (res-VC and IC-VC). VOCs were not detected in other wells located near three PCB/ETPH release areas in three groundwater samples submitted for analysis in April 2010.

STANTEC developed a Conceptual Site Model (CSM) for the site. The CSM is presented below.

2.5 Conceptual Site Model

Based on the delineation data, STANTEC revised the conceptual site model (CSM) for the site. Historical property uses included brick manufacturing and clay mining (for brick stock). Historical mining created a large pond on-site. In the 1950s, 1960s, and 1970s the pond was filled. The site was redeveloped in the 1980s as a light commercial and industrial complex. Soil and groundwater sampling has been conducted from the mid-1990s to the present. Based on these investigations, it does not appear that on-site operations since redevelopment have resulted in releases of petroleum or hazardous materials.

ETPH, PCBs, and SVOCs have been detected in saturated and unsaturated soil. The source of PCBs and ETPH appears to be historical fill materials, since most soil on-site contains significant quantities of wood, ash, brick, and other debris. Elevated SVOC concentrations could be attributable to the disposal of wood ash. Wood was used to fire bricks from the late 1800s to 1950s. However, since field observations suggest that the SVOCs are part of a heavy petroleum product mixed with wood debris, the SVOCs are more likely related to wood preservative waste deposited as fill from an off-site source. No historical wood preserving was conducted on-site. While some SVOC data exists for soil, we determined that ETPH was the appropriate analytical

metric rather than SVOCs, since SVOCs appear to be coincident with PCBs and ETPH. Thus, SVOCs detected in the soil samples are addressed as a component of the ETPH.

Groundwater sampling data indicate that groundwater is impacted by low levels of VOCs in the southern parking lot, and beneath the Petco Construction garage. For example, benzene exceeds the SWPC at RIZ-15A. Since RIZ-15A is near an on-site pond and the Quinnipiac River, groundwater remediation may be required to reduce benzene and other organics above the SWPC in groundwater. Similarly, groundwater remediation may be required to address exceedances of the volatilization criteria.

Chlorinated VOCs have been periodically detected at low concentrations in groundwater at the south-side of the site. The VOC concentrations have been of a low order of magnitude, and typically 1 to 2 µg/L. The low levels of chlorinated VOCs have been attributed to migration to the site in shallow groundwater as a function of the operation of an air-sparging and SVE system at the adjacent Aura/Arber/Eton Fujikura site. Based on an historical analysis of the data, we note that most chlorinated VOCs detected at the site have coincided with operation of the air sparging system. As a result, we believe that chlorinated VOCs in groundwater at the southern side of the site are from an off-site source.

Based on the nature of surficial deposits, we anticipate that off-site migration of PCBs and ETPH is not occurring. Similarly, since the site is located in a GB area, we do not anticipate that groundwater is used as a drinking water source. No endangered species are known to exist on-site. As a result, no sensitive receptors were identified.

2.6 PCB Electrical Equipment

Based on the date of construction (1985), the presence of PCB electrical equipment containing PCBs >50 ppm is not likely. No historical information exists to indicate the presence of historical electrical equipment containing PCBs >50 ppm at the site.

2.7 Drainage Structures

Drainage structures exist in the building and include floor drains that drain to the storm sewer system. Similarly, catch basins exist at the site and drain to the storm sewer system. Since the fill materials were placed below the ground surface before the buildings were built, the presence of PCBs in the building slab, building materials, and pavement is not anticipated. No evidence has been found to indicate that site operations have resulted in a release of PCBs and ETPH to surface water.

2.8 Geology

Soil beneath the site consist of sandy fill materials containing organic materials, brick and wood scraps, and other debris to a depth of approximately 12-15 fbg. The fill materials are variable in thickness and overlie sand and silty clay deposits that trend to silty clay at 15 to 20 fbg. The release is located in the sand and silty clay deposits rather than the clay. The clay is likely to form an effective barrier to vertical contaminant migration.

No bedrock outcrops were observed in the vicinity. Based on the local geology and work completed by STANTEC on nearby properties, no bedrock is suspected near the surface.

2.9 Groundwater Resources

Groundwater beneath the site is classified as GB by the DEP. GB groundwater is defined as groundwater within a highly urbanized area or areas of intense industrial activities where public water supply service is available. In GB areas, the groundwater may not be suitable for direct human consumption due to various historical impacts in the general area. The DEP's goal is to prevent further degradation to the groundwater through the prevention of additional discharges.

No known drinking water wells exist in the vicinity.

Groundwater flows to the south to southwest and toward the Quinnipiac River.

Based on historical groundwater data, the seasonal high groundwater elevation is approximately 6 fbg in southern portions of the site (Zone 1) and 8 fbg in northern portions of the site (Zones 2 and 3). The seasonal high groundwater determination was made using groundwater elevation data obtained by Rizzo Associates from 1995-2005, SECOR in 2007, and STANTEC in 2008. The seasonal high groundwater estimation is designed to be conservative. Shallower groundwater elevations have historically been measured, but the 6-8 foot estimation is designed to provide a conservative estimation that is protective of human health and the environment.

Most site wells are anchored into the underlying silty clay and clay. We have found no evidence that contaminants exist as a separate phase in any location. On the contrary, sampling data indicate that PCBs are not present in groundwater and that only low levels of VOCs exist in some locations. Hydraulic conductivity at the site is estimated to be typical of silty clay materials and around 10^{-3} ft/sec.

2.10 Surface Water

The nearest surface water body is the Quinnipiac River, which is nearby to the west and across I-91. Stormwater detention ponds exist at and adjacent to the site. These detention ponds are isolated from the Quinnipiac River and the surface water drainage pathway. Releases to the detention ponds, if any, would not result in a release to the Quinnipiac River. The drainage structures contain stormwater contribution from multiple sources, including I-91 and site catch basins.

2.11 Wetlands

The nearest wetland is adjacent to the west. Since the PCB and ETPH impacted soil is buried at depth, a release to the wetland is not anticipated. No staining, sheens, or other evidence of a release to wetlands was identified. Wetlands like areas are adjacent to the on-site drainage

structures. While we have not conducted a wetland survey, there may be minor amounts of wetland soil adjacent to the drainage structures.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 PCBs in the Natural Environment

To further delineate PCBs and ETPH in soil beneath the 98 Rebeschi Drive building (Zone 3), STANTEC conducted soil borings to 15 fbg in the interior space at the northern-side of the building. A small amount of fill containing PCBs over 1 ppm was encountered. Some of the fill contained PCBs up to approximately 200 ppm at a depth of 12 fbg beneath the 98 Rebeschi Drive building.

Based on the data collected during historical investigations, STANTEC calculated volume estimates for the impacted soil zones above the regulatory criteria, above and below the saturated groundwater zone.

Estimated soil volumes exceeding regulatory criteria are summarized below. The estimates are based on an estimated vertical depth of 8 feet.

Zone 1

ETPH Impacted Soil = 3,800 yds^3
PCB Impacted Soil (1 to 10 mg/kg) = 2,133 yds^3
PCB Impacted Soil (10 to 50 mg/kg) = 355 yds^3

Zone 2

ETPH Impacted Soil = 1,422 yds^3
PCB Impacted Soil (1 to 10 mg/kg) = 475 yds^3

Zone 3

ETPH Impacted Soil = 1,896 yds^3
PCB Impacted Soil (1 to 10 mg/kg) = 680 yds^3
PCB Impacted Soil (10 to 50 mg/kg) = 265 yds^3
PCB Impacted Soil (over 50 mg/kg) = 235 yds^3

Zones are depicted on Figure 1A. Contaminants in these zones are graphically depicted on Plans 2 through 7 (attached). Most of the impacted soil is deeper than 4 feet from the ground surface and extends beneath the saturated groundwater zone to a depth of 12-14 fbg in soil locations. Shallow ETPH and PCB impacted soil was detected in a few selected locations. The plan addressed these shallow soils through targeted excavation as well as deeper soils to 12 to 14 fbg.

3.2 PCBs in Concrete

Since the PCB and ETPH impacted soil is buried at depth and has been beneath a paved

asphalt surface since site development (1988), the presence of PCBs in concrete is not suspected. No pathway exists for PCBs to migrate or track to concrete in the buildings. As a result, concrete sampling has not been conducted nor is warranted based on the site development history.

4.0 SOIL CHARACTERIZATION DATA QUALITY REVIEW

4.1 Soil Sampling Work Plan

Delineation soil sampling conducted from 2008 to 2010 conducted in accordance with the general methodology discussed with EPA Region 1 during telephone conversations in 2009 (10 foot centers in areas where PCBs were detected above 50 ppm) and 20 foot centers in other locations where lower PCB concentrations were detected. A Quality Assurance Project Plan (QAPP) was prepared for the sampling activities and is appended. The data quality review was designed to evaluate the data with respect to the QAPP and industry standard data quality guidelines.

4.2 Data Needs

Data requirements outlined in the work plan included the following data needs:

1. Determine the horizontal and vertical distribution of PCBs and ETPH in soil at the site.
2. Determine the volumes of soil above and below the water table that contain PCBs and ETPH above regulatory criteria.
3. Determine whether PCBs pose a threat to human health and the environment in-situ.

4.3 Data Quality Objectives

Soil sampling data quality objectives (DQOs) outlined in the work plan included:

1. Analytical methods must be in compliance with the requirements of SW846.
2. The analytical method must be able to distinguish distinct PCB compounds including PCB Aroclor 1016, Aroclor 1254, Aroclor 1260, and Aroclor 1268. EPA Method 8082a is the most suitable analytical technique to achieve this DQO.
3. The analytical method must employ extraction method 3540C, as specified by the Federal regulations and as requested by EPA.
4. Analytical detection limits must be below 1 ppm for total PCBs. As a result, analytical detection limits for individual Aroclor compounds should be around 50 µg/kg at the highest.
5. Analytical data quality must be sufficient to allow the user to distinguish interference from actual PCB concentrations.

6. Analytical data quality must be sufficient to allow the user to review and verify laboratory quality control and verify the precision, accuracy, and completeness of the data set.

7. The data set must meet the DEP's Reasonable Confidence Protocols (RCPs) for data quality.

The sampling completed from 2008 to 2010 meets these DQOs since each objective was satisfied. Stantec's review of the data package indicates that the analytical methods specified in the work plan were met, the QC data were sufficient to distinguish interference from representative data, and the lab data meet both the quality requirements contained in SW846 and the CT DEP's RCPs.

4.4 Soil Sampling Data Quality Parameters

The sampling work plan required an evaluation of data quality parameters including precision, accuracy, representativeness, completeness, and comparability.

- Stantec reviewed the data quality package provided by the lab and determined that the data meet the quality thresholds for precision. Lab precision was measured using duplicates. The PCB concentrations reported in the duplicates were within 20 percent of the source sample result. As a result, the data meet the precision requirements set by the work plan for precision.

- Stantec reviewed the data package for accuracy as measured by lab QC data (blanks, MS/MSDs, and performance evaluation samples). The method blanks, MS/MSD, lab duplicates, and PE sample results meet the accuracy requirements set forth in the work plan. The PE sample contained PCBs within the expected spike range reported by the manufacturer.

- The sample collection followed a 20 x 20 ft. grid in the areas where PCBs and ETPH have been detected and a 10 x 10 ft. grid in Zone 3 where PCBs have been detected at elevated concentrations without significant variation. As a result, the data meet the representativeness requirements stipulated by the QAPP.

- Based on our review of data collection methods, sample handing, and lab sample management techniques, the data package was determined to be comparable to other data packages used for environmental remediation projects. Since the data meet the RCPs, the data meet the requirements for comparable data packages in Connecticut and the quality requirements set forth by the DEP for use under the RSRs. The lab followed the practices and procedures for the completion of EPA Method 8082A and extraction method 3540C. As a result, the data are comparable to other data packages used for the investigation and remediation of PCBs under TSCA.

- The data collection grid was deemed complete since more than 80 percent of the intended samples were collected. The 80 percent threshold was a project completion goal.

4.5 Air Sampling Dta Quaity Parameters

Air sampling was conducted using a laboratory accustomed to meeting EPA's requirements for air sample analytical quality (NEA Analytical, Inc. in Albany, New York). This laboratory does not provide RCP certifications. However, the data obtained from NEA was obtained using specialized state of the art analytical procedures by one of the few laboratories capable of conducting the required analyses. As a result, we believe that these data are of superior quality that exceed RCP data quality standards.

5.0 PROPOSED REMEDIAL RESPONSE

5.1 Remedial Approach Overview

The remedial response for PCBs >10 ppm beneath the 98 Rebeschi Drive building, which are considered high occupancy, was designed to meet the requirements of 40 CFR Part 761.61(c) (TSCA risk-based approval for PCB remediation), CGS 22a-133k-1-3 (the RSRs), and the Connecticut Solid Waste regulations. The RAP includes excavation and in-situ management components. For exterior soils, remediation of PCBs >10 ppm will follow the prescriptive requirements of 40 CFR 761(a).

The ECL, as discussed in previous sections, will serve to manage ETPH exceeding the IC (2,500 mg/kg) in place under the existing pavement. The ECL will also serve to cover PCBs to prevent contact, and provide a cover over two feet of clean soil over PCBs and ETPH that remain. Note that only limited areas of ETPH and/or PCBs exist within two feet of the surface, and the bulk of impacted soil exceeds 4 feet in depth. The reason for this contaminant distribution is that fill materials were used to fill brickyard ponds. As such, the fill materials exist mainly below saturated groundwater. More recent filling activity was conducted in the 1980s by Paul Rebeschi to develop the site, and included clean materials.

5.2 Soil Removal PCBs>10 ppm and ETPH Over 2,500 mg/kg

PCB impacted soil containing PCBs over 10 ppm adjacent to the 78 Rebeschi Drive building (Zone 1) and 98 Rebeschi Drive building (Zone 3) will be excavated to 12-14 fbg in accessible locations in each area. In lawn and sidewalk areas at 78 Rebeschi Drive, soil excavation will occur until contaminants are below RSR criteria since the proposed ECL is not appropriate for these areas. The remediation wastes will be disposed off-site as TSCA remediation wastes at Subtitle C and D landfills, as appropriate (based on PCB concentration). Certain low level PCB impacted soils may also be eligible for re-use at municipal landfills (e.g. the Hartford Landfill)(depending on PCB concentration) for purposes of landfill closure. Should we find that the Hartford Landfill can accept these soils, EPA and DEP will be notified of this change in disposal location.

5.3 ECL PCBs>1 ppm , PCBs>10 ppm and ETPH Over 2,500 mg/kg (Inaccessible Areas Beneath Buildings)

The proposed remedial approach for soil containing PCBs over 10 ppm is to manage the soils beneath the 98 Rebeschi Drive building under the existing structure. As discussed, STANTEC conducted indoor air monitoring to determine if this strategy would provide a disposal solution that would be protective of human health. Since PCBs over 10 ppm are buried at depth and no PCBs were detected in indoor air, this approach would result in negligible risk to human health because:

1. The wastes would be inaccessible to workers in the building.

2. The wastes would not be subject to stormwater infiltration.

3. The in-situ disposal would not result in risk to indoor air and building occupants.

The 98 Rebeschi Drive building is a concrete and steel roof structure that is in good condition. The slab of the structure is a 6-inch reinforced concrete slab without a vapor barrier. The structure and slab are in excellent physical condition. As a result, the existing structure and slab meet the criteria specified by 40 CFR 761.61(a)(7) because the slab is not subject to exposure to precipitation. The slab also meets the minimum thickness of 6 inches. Maintenance of the slab is discussed in the ELUR section (Section 5.7).

5.4 ECL for PCBs>1 ppm and <10 ppm and ETPH over 2,500 mg/kg

The proposed remedial approach for soil containing PCBs >1 and <10 ppm beneath asphalt in exterior locations of Zones 1, 2, and 3 and the 78 Rebeschi Drive building is to leave these soils in place. Soils in these areas range in depth from 4 feet to 12 feet below grade on average. Since the paved parking lots are used for vehicle traffic, loading, and transient access to the buildings, these soils can be classified as "low-occupancy" and could remain in place under the SIP provided by TSCA. PCBs >1 ppm and <10 ppm PCBs are comingled with petroleum hydrocarbons above 2,500 mg/kg. As a result, STANTEC proposes to leave these soils in place under the ECL to meet the RSR requirements.

The ECL would render PCB and ETPH impacted soil inaccessible and environmentally isolated. As a result, STANTEC believes that this approach would be protective of human health and the environment because:

1. The soils would be inaccessible to workers and transient occupants of the property.

2. The soils would not be subject to unacceptable stormwater infiltration by virtue of the existing pavement. Note that only low levels of aromatic VOCs have leached to groundwater in two areas (the southern parking lot) and near the Petra garage space). VOCs are below the SWPC for each respective compound. As a result, the data demonstrate that the ETPH release does not pose an unacceptable risk to human health or the environment

3. The soils would not be subject to erosion.

4. The in-situ disposal would provide long term protection of the impacted soils.

5.5 ETPH Cleanup Levels

Groundwater sampling indicates that the ETPH impacted soil is not resulting in a significant impact to groundwater. In addition, groundwater sampling suggests that only a limited release of VOCs to groundwater has occurred. VOCs only exceed the volatilization criteria (VC) and Surface Water Protection Criteria (SWPC) in the vicinity of RIZ-15A. While benzene exceeds

the VC in the vicinity of RIZ-15A, this well is down-gradient of buildings at the site. No VOCs above the VC have been detected in groundwater near or up-gradient of occupied buildings.

The data indicate that ETPH is not significantly impacting groundwater. As such, rendering ETPH impacted soil above 2,500 mg/kg inaccessible and environmentally isolated would be protective of human health and the environment.

STANTEC proposes to render ETPH impacted soil, which are comingled with PCBs, in place as inaccessible and environmentally isolated under the ECL. While no prescribed cap is required for PCBs under 40 CFR 761(a), we understand that some clean cover is likely required under a 40 CFR 761(c) approval. In this instance, the ECL will have a 2 foot clean cover over contaminated soil and include 2 to 3 inches of asphalt over the clean soil cover.

5.6 Proposed Engineered Control Lite

STANTEC proposes to use an Engineered Control Lite (ECL) to manage ETPH and PCBs in soil after PCB remediation. The ECL will use the existing buildings to cover PCB and ETPH impacted soil beneath these structures, and the existing pavement to cover PCB and ETPH impacted soil that may remain. Backfilled and paved remediation areas will also serve as part of the ECL cover. Based on the data available, the ECL will provide an effective barrier to control direct exposure and migration of contaminants to groundwater. Since the contaminants are largely buried at depth and the impacted areas are primarily used for truck traffic and vehicle parking, 2 feet of clean fill covered by 2 to 3 inches of asphalt (the existing pavement) is proposed to serve as the ECL.

Recent groundwater sampling data suggest that ETPH and PCBs are not adversely impacting groundwater. While ETPH exceeds the GB PMC by total/mass analysis, groundwater data validate that VOC impacts to groundwater are minimal and do not exceed the SWPC or volatilization criteria (VC). As such, the groundwater data demonstrate that the release is not adversely impacting groundwater. Therefore, the ECL will also be used to deem the soil environmentally isolated, using groundwater data to support the validity of the ECL in achieving this purpose.

The ECL differs from the self implementing options for achieving compliance with the DEC and PMC prescribed by the RSRs in two fundamental ways:

1. The ECL will use less than 3-inches of asphalt cover over 2 feet of clean material to render the soil inaccessible. Asphalt ranges from 2 to 3 inches across much of the site. Since the release areas are used for truck traffic and vehicle parking, this departure from the normal protocol of 3 inches of asphalt is not deemed a factor that would create a significant risk to human health or the environment.

2. The ECL does not rely on contaminant soil concentrations to render soils environmentally isolated vis a vis the GB PMC. Note that the release area intersects saturated groundwater. As a result, we cannot demonstrate that the soils are environmentally isolated in a traditional sense. However, groundwater data demonstrate that releases of VOCs are below the VC and SWPC.

3. Therefore, the ECL relies on the groundwater data and contaminant concentration to demonstrate compliance with the GB PMC. Since the ultimate goal of the PMC is to prevent unacceptable impacts to groundwater, we believe that the use of the ECL is consistent with the spirit and intent of the PMC.

We anticipate that the customary 45-day public comment period would apply.

5.7 Environmental Land Use Restriction

After soil containing PCBs over 10 ppm is excavated from exterior locations and left in place under the 98 Rebeschi Drive building, an ELUR will be recorded on the land records to ensure that the material remains inaccessible, undisturbed and environmentally isolated under the ECL.

The ELUR will stipulate that the site be used only for industrial and commercial purposes and that the 78 and 98 Rebeschi Drive buildings remain in place and undisturbed.

Emergency access is possible without releasing the ELUR. The ELUR will contain provisions to allow access beneath the slab, in an emergency situation, following specific procedures to minimize potential worker exposures to PCBs. The ELUR will be used to satisfy the requirements of the deed restriction that must be placed on the land records under 40 CFR 761.61(a) and the RSRs to ensure that the there is notification on the land records that the property has been used for PCB remediation waste disposal and that the ELUR restrictions must be maintained. Under 40 CFR 761.61(a)(8), the deed restriction is to be recorded within 60 days of completion of a cleanup activity under that section.

WEI North Haven Limited Partnership plans to prepare and record the ELUR at the completion of all cleanup activities at the site, so that it can clearly show the areas where use is being restricted including those areas used for PCB remediation waste disposal designated as "high occupancy", and those that are and those areas designated as "low occupancy."

The ELUR will also contain provisions that require annual inspection and maintenance of the ECL (pavement) to prevent asphalt degradation, settling, cracking, and deterioration. Should the ECL deteriorate, then re-paving will be required to meet the same conditions that exist when the ECL was approved. These restrictions will be carried on the deed to satisfy both 40 CFR 761.61(a)(8) and the RSRs.

5.8 Preferential Pathways

No preferential pathways for contaminant migration were identified with respect to PCBs in the soils located in Zones 1, 2, and 3. A natural gas, water, and electrical utility trench runs through Zone 1 above the saturated groundwater zone. As a protective measure, the trench will be backfilled in locations where excavation removes materials with high swelling bentonite clay stops every 50 feet along its axis as it runs through the release area. The use of clay stops

would prevent potential contaminant migration in the unlikely event of a flood from an extreme storm water event. No other preferential pathways to contaminant migration were identified.

5.9 Construction and Emergency Access Considerations

Under the ELUR, emergency access to the restricted areas will be allowed as necessary. Access to areas covered by the ELUR is available in emergency situations. Access for construction, utility work, and other non-emergencies is also possible with release from DEP to access the materials or conduct work in and around the restricted areas.

5.10 Contaminant Mobilization Variables

Mixed Contaminants

No compounds that would mobilize PCBs are mixed with the PCB impacted soils. PCBs are comingled with petroleum hydrocarbons, poly aromatic hydrocarbons (PAHs), and low levels of aromatic VOCs such as benzene and toluene. These compounds do not mobilize PCBs to any significant degree. Existing site data also demonstrate that VOCs in groundwater at RIZ-15A are not causing a release of PCBs to groundwater.

Vaporization

PCBs are extremely insoluble and have an exceptionally low vapor pressure. As a result, PCBs are naturally resistant to volatilization under normal temperatures. However, a 2004 anecdotal study measured very low levels of PCBs in indoor air at a site where PCBs exist at very high concentrations beneath buildings. In one instance, PCBs were measured in indoor air where PCBs exist at a concentration of 160,000 ppm in soil. At that particular location, the indoor air testing found trace levels of PCBs in indoor air as a result of vaporization from the subsurface (1-200 ng/m^3). These concentrations are well below the OSHA Permissible Exposure Limit (PEL).

To evaluate this variable with respect to the presence of PCBs beneath the 98 Rebeschi Drive building, Stantec determined that PCB concentrations in soil beneath 98 Rebeschi Drive are orders of magnitude less than those associated with the 2004 EPA study. As a result, PCBs, if present as vapors, would likely be below analytical detection limits for an unprotected slab and foundation (<100 ng/m^3). As a result, STANTEC determined that the risk of vapor intrusion from leaving PCB wastes beneath 98 Rebeschi Drive is negligible.

As discussed, to support this assessment, STANTEC collected three indoor air samples in the 98 Rebeschi Drive space using NIOSH Method 5503 for PCB analysis. PCBs were below detection limits in the samples collected (<100 ng/m3). Additional air sampling was conducted in April 2010, and determined that PCBs in indoor air ranged from 0.000276 to 0.002881 µg/m3 and slightly higher than PCB concentrations measured in outdoor ambient air (0.000706 to 0.001633 µg/m3).

5.11 Stormwater Management and Mitigation

Stockpiled soil will be loaded directly in covered and secured containers in accordance with stockpiling requirements outlined in this document. The containers will be scheduled for off-site disposal as soon as practicable. As a result, the risk of stormwater coming into contact with the excavated soil is minimized.

5.12 Stockpile Requirements

PCB-impacted soil generated during the project will be stored in designated stockpile areas in roll off containers. The containers will meet the stockpile requirements contained in 40 CFR Part 761 and labeled with the "ML" mark.

5.13 Verification Sampling

After soil removal in exterior areas where PCBs exceed 10 ppm, verification sampling will be conducted in accordance with 40 CFR Part 761, Subpart O. This protocol will be used to sample sidewalls and the bottom of excavations. Samples will be analyzed for PCBs by EPA Method 8082a using the Soxhlet extraction procedure 3540C. Samples will also be analyzed for ETPH. The analytical detection limits will be sufficient to satisfy the CT RSRs and EPA remediation cleanup goals. All data will be performed by a State of Connecticut Department of Health (CT DPH) certified laboratory using the RCPs.

6.0 PERMITS AND APPROVALS

6.1 Overview

The soil remediation project is not subject to state or federal permitting requirements. However, the remediation project and disposal of PCB remediation waste is subject to DEP and EPA approval.

6.2 General Permit for Contaminated Soil Staging and Transfer

We do not anticipate the soil remediation project will expected to result in the storage of more than 1,000 cubic yards of soil at any given time for more than 45-days. As a result, this permit will not be required.

6.3 Remediation Wastewater

In order to facilitate excavation below the saturated groundwater zone in areas where PCBs exceed 10 ppm, dewatering will be required. Dewatering will be performed to remove dewatering wastes. STANTEC proposes to containerize the wastewater in a frac tank prior to treatment and discharge under a permit to the sanitary sewer. The proposed treatment is sediment removal in the frac tank, oil removal in an in-line oil/water separator, and filtration through activated carbon before discharge. Some excavation activities will require the use of sheet piling and/or trench boxes. STANTEC will determine what excavation technologies are most appropriate.

6.4 General Permit for the Discharge of Remediation Wastewater to the Sanitary Sewer

The discharge of treated remediation wastewater to the sanitary sewer will be performed using a DEP General Permit for the Discharge of Remediation Wastewater to the Sanitary Sewer. STANTEC will apply for this permit.

If the municipal sanitary sewer cannot accept the wastewater, STANTEC will dispose of the wastewater at a facility that is licensed to accept the wastewater.

6.5 EPA Remedial Action Plan Review

Under 40 CFR Part 761.61(c), approval of the RAP for high occupancy areas will be required by EPA. 40 CFR 761.61(c) which does not stipulate EPA review and approval within a prescribed timeframe. As such, the work plan will not be implemented until approval is received from EPA.

6.6 DEP Remedial Action Plan Review

DEP review and approval of the ECL is done on a case by case basis. STANTEC will present the ECL to DEP conceptually in this plan. Upon review, STANTEC will arrange for a meeting to

formalize conceptual approval of this plan. Once conceptual approval is received, STANTEC will file an application for the ECL.

6.7 Certification

40 CFR Part 761.61(a)(3)(E) requires a written certification by the owner of the site where cleanup will occur and the party conducting the cleanup that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location designated in the certificate and are available for EPA inspection. The certification is attached as Appendix C.

6.8 Engineered Control Lite Variance

The only financially viable way to achieve compliance at the site is through the use of the ECL variance process to leave ETPH impacted fill materials in-situ. Since these materials are not causing a significant impact to groundwater, an ECL would be an appropriate application for this site. The cost to remediate ETPH would be prohibitive, and not likely to result in a material improvement in environmental quality. Since PCBs and ETPH are not significantly impacting groundwater resources, and VOCs are only present in one location (RIZ-15A) below the SWPC and IC VC, the cost to excavate the PCBs and ETPH is not justifiable.

7.0 SCOPE OF WORK LOGISTICS

The remedial response scope of work is detailed below. The scope of work includes procedures and protocols for soil excavation and staging, and off-site disposal.

7.1 Task Scheduling

Project tasks have been coordinated so that soil excavation for PCBs, ETPH, and groundwater treatment will occur in a coincident manner. Such an approach will minimize costs and time to complete the work.

7.2 Soil Excavation

Uncontaminated soil in the unsaturated overburden, as delineated by STANTEC in 2008, will be removed from those areas where soil excavation will occur, and stockpiled pending reuse as backfill. Based on the volumes of soil calculated in each zone, STANTEC anticipates removing PCBs in accessible areas of each zone. Accessible areas are defined as soils at 78-98 Rebeschi Drive that are not beneath buildings, footings, and other infrastructure that can be easily excavated without risking structural damage to buildings, footings, or other infrastructure owned by the property owner and tenants, as applicable.

STANTEC anticipates that soil excavation activities in each zone will be successful in removing PCB remediation wastes >10 ppm in all accessible areas of each zone. In each zone, the contaminated soil zone ranges from approximately 4 to 12 to 14 fbg.

7.3 Waste Shipment Notification

In accordance with 40 CFR Part 761, WEI North Haven Limited Partnership will provide each off-site disposal facility written notice of waste shipments, including the quantity to be shipped and highest concentration of PCBs detected (using extraction EPA Method 3500B/3540C followed by chemical analysis using EPA Method 8082 in SW-846) at least 15 days before the first shipment of bulk PCB remediation waste from the site.

7.4 General Remediation Waste Disposal

Non-liquid cleaning materials and personal protective equipment waste at any concentration, including non-porous surfaces and other non-liquid materials such as rags, gloves, booties, other disposable personal protective equipment, and similar materials resulting from cleanup activities shall be either decontaminated in accordance with §761.79(b) or (c), or disposed of in one of the following facilities:

(1) A facility permitted, licensed, or registered by a State to manage municipal solid waste.

(2) A facility permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste.

(3) A hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA.

(4) A PCB disposal facility approved under 40 CFR Part 761.

7.5 Waste Transportation

All PCB remediation wastes shipped off-site for disposal will be shipped in transportation containers that meet the requirements of DOT Hazardous Materials Regulations (HMR) at 49 CFR parts 171 through 180.

8.0 AMBIENT AND WORKER AIR MONITORING AND WORKER SAFETY

8.1 Air Monitoring Strategy

During the impacted slab demolition and stockpiling activities, Stantec has developed an air monitoring protocol to ensure that exposure to airborne PCBs to on-site workers and the environment is minimized. The monitoring will include two components: 1) a negative exposure assessment (NEA) to ensure that workers are not exposed to PCBs during site specific work activities, and 2) ambient monitoring to ensure that PCBs are not released to nearby properties. The goal of ambient air monitoring is to ensure that the excavation project will not result in emissions of PCB dust to the environment and nearby community.

8.2 Negative Exposure Assessment

For the first two days of operations, two workers best representing those work practices directly related to soil excavation, stockpiling, and waste management will be outfitted with a personal low-volume sampling pump with an attached filter and sorbent tube. The pumps will be calibrated for a flow rate of approximately 0.1 liters per minute (l/min) for a total of 48 liters over an 8-hour period.

The personal air samples will be sent to a certified and accredited laboratory where they will be analyzed by NIOSH method 5503 using gas chromatography. Results will be presented in milligrams per cubic meter and will be compared to an 8-hour time weighted average (TWA) Permissible Exposure Limit (PEL) of 1 mg/m^3 (for 42% Cl compounds) and 0.5 mg/m^3 (for 54% Cl compounds). The laboratory detection limits will be approximately 1.0 $\mu g/m^3$.

Prior to the receipt of results, all workers will perform the work practices using Level C personal protective equipment (PPE) including full face or half mask respirators, gloves, and protective suits. After receipt of the results, the workers may lower the level of PPE to Level D, provided that exposure to airborne PCBs are below the OSHA PEL.

If PCBs exceed the OSHA PEL, then workers will be instructed to increase the use of dust suppression and will maintain Level C PPE until personnel air monitoring indicates that PCBs are below the PEL during the work practice.

8.3 Background Ambient Air Monitoring

Based on our experience with similar projects, STANTEC proposes to use total particulates as a measure for adequate dust control. Since PCBs are only aerosolized as adhered to particulates, total dust measurements should be adequate to protect human health and the environment.

Prior to any excavation activity, STANTEC will monitor dust levels at the site with a DustTrak II total dust monitor and digital weather station that monitors temperature, humidity, and wind direction. The background dust results will be used to establish a baseline for dust levels during excavation.

8.4 Ambient Air Monitoring During Excavation

During excavation of PCB impacted soil, ambient air samples will be collected from the perimeter of each zone. Real time particulate levels will be recorded and compared to background levels.

During excavation, if dust levels exceed two times the background concentrations recorded before the project for any extended period of time, STANTEC will instruct the contractor to use an engineered control (water mist) to control particulate emissions.

8.5 OSHA HAZWOPER (29 CFR 1910.120)

Sampling and excavation staff selected for this project must be enrolled in a medical monitoring program that complies with the OSHA HAZWOPER standard. If respiratory protection becomes necessary during sampling as a result of a change in sampling conditions from those that existed during the completion of the NEA, each sampler that must wear a respirator must hold documentation that he or she has passed a qualitative and quantitative respirator fit test.

8.6 Action Levels

The action level for PCBs in worker breathing zones is the OSHA PEL. The action level for dust (as measured by total particulates) is 150 mg/m^3 or two times the background particulate concentration, whichever is less.

8.7 Threshold Exceedances

If dust thresholds are exceeded, then the site work will stop and dust suppression measures will be modified to reduce airborne dust. Dust suppression may include misting and engineering controls to minimize dust generation.

8.8 Wind Measurements

Prevailing winds will be measured during the air monitoring activities and recorded hourly. The wind direction data will be used in conjunction with the sample data to illustrate the prevailing wind and likely downwind position. The data will be used to demonstrate the efficacy of dust suppression.

9.0 SOIL REUSE AND SITE RESTORATION

9.1 Uncontaminated Soil

Clean fill materials excavated from the unsaturated overburden will be stockpiled and reused at the site as backfill. The uncontaminated soil will be compacted at the static groundwater table with a vibratory compactor. Some of this fill may also be used above the saturated groundwater zone to the 2 feet below grade elevation. Above the static groundwater zone, uncontaminated soil will be compacted in one foot lifts to 95 percent compaction.

9.2 Structural Fill

The balance of fill materials used to backfill excavations will be sand and gravel that meets Connecticut DOT requirements for paving sub base conforming to the requirements of Articles M.02.02 and M.02.06 of the Connecticut DOT specifications for grading materials B. These materials will be used at a minimum thickness in any excavation where paving will be used as the final cover. The material will be compacted at the static groundwater zone (if necessary) and in one foot lifts above the static groundwater zones to 95 percent compaction.

9.3 Pavement and Curbing

In excavation areas, asphalt will be patched with a high quality asphalt cover consisting of three inches of hot rolled asphalt. Similarly, curbing will be replaced as necessary. Both asphalt and curbing will be graded to match existing. Curbing and pavement will meet Connecticut DOT curbing requirements for secondary roads and Town of North Haven zoning requirements.

9.4 Pavement Grading Plan

STANTEC will prepare a pavement grading plan to ensure that the new paved surface meets site specific drainage requirements, matches existing grade, and matches the elevation of existing structures such as buildings, catch basins, and other site features. The grading plan will take into account the depth of existing pavement, the existing sub-base elevation, and the elevation of existing site features. The grading plan will be stamped by a State of Connecticut Licensed Professional Engineer (PE). The grading plan will be provided to the pavement contractor to complete the work.

9.5 Pavement Recycling

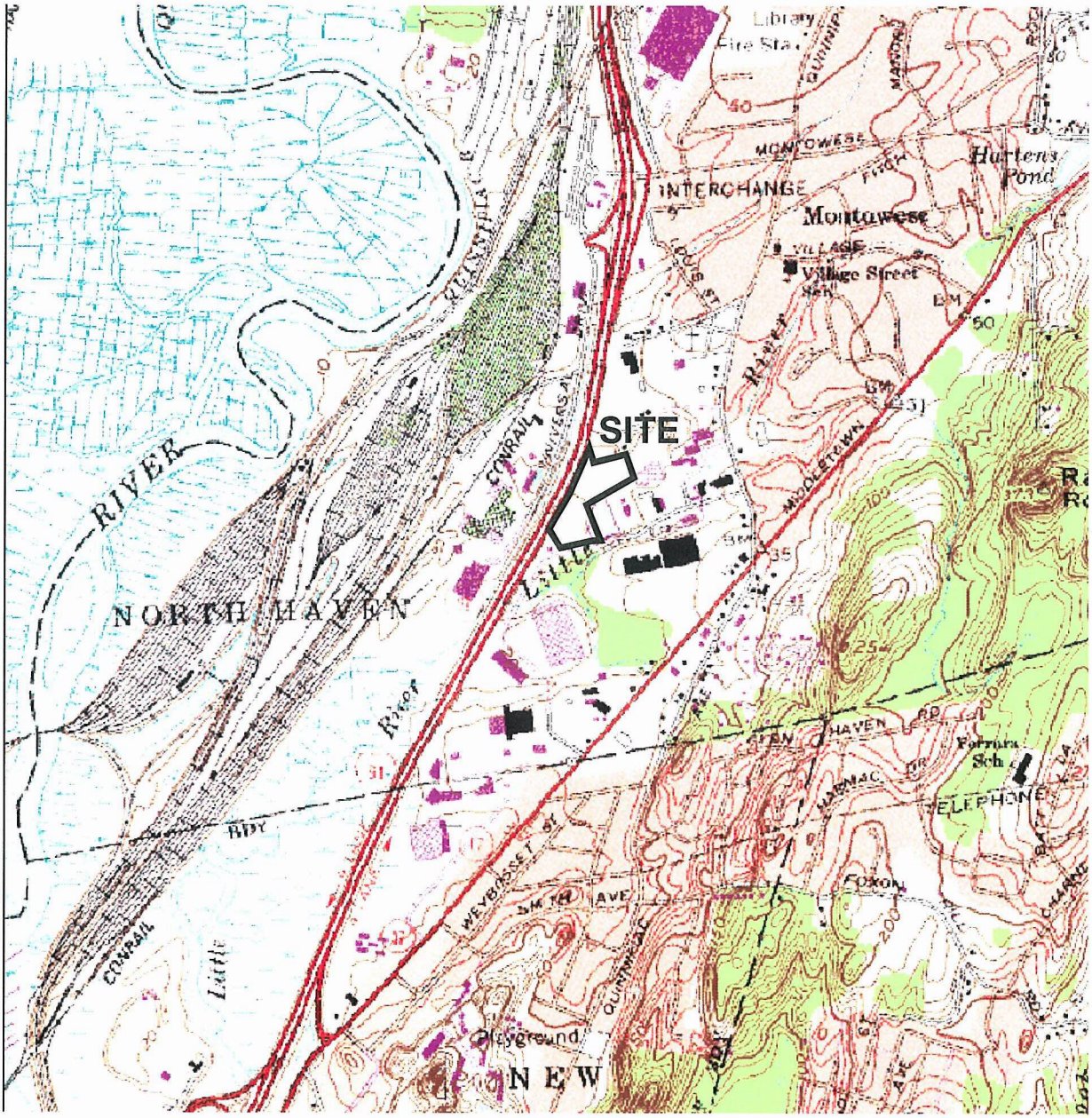
Existing pavement will be reprocessed and set aside for recycling as sub base beneath the new asphalt surface. The recycling will be completed by the pavement contractor using good commercial practice

10.0 PROPOSED GROUNDWATER MONITORING PROTOCOL

10.1 Baseline Monitoring

Compliance and post-compliance groundwater monitoring will be conducted in accordance with the requirements of the RSRs. We anticipate that the monitoring protocol will involve all existing site wells. Groundwater from each well will be analyzed for PCBs by EPA Method 8081 and VOCs by EPA Method 8260 using the RCPs. Sampling will be conducted in accordance with prevailing DEP guidance.

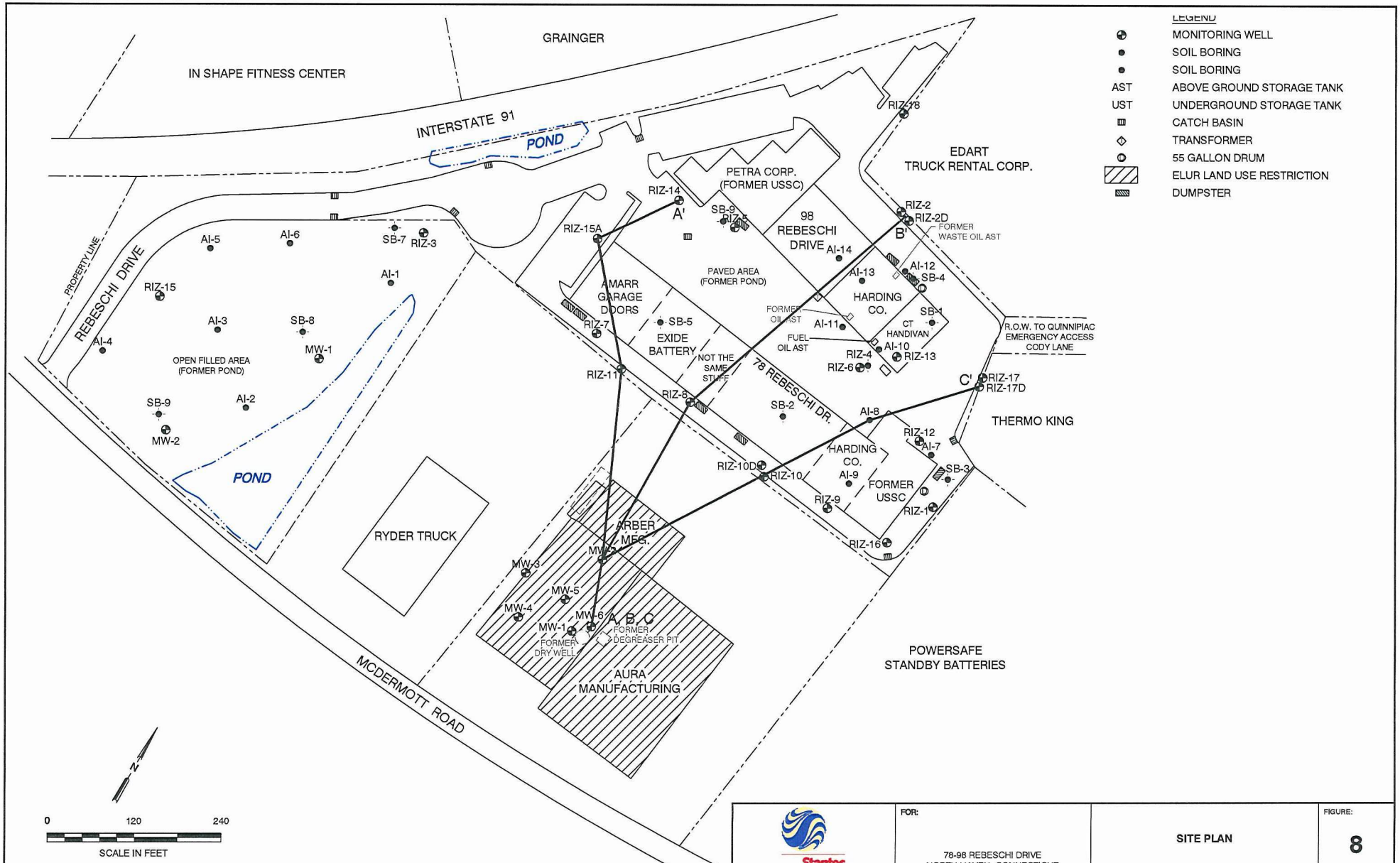
FIGURES



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BRANFORD, CT.; 1984

SECOR
100 PEARL STREET, 14th FLOOR
HARTFORD, CONNECTICUT
PHONE: (860) 249-7034/249-7037 (FAX)

FOR:		SITE LOCATION MAP		FIGURE:
78-98 REBSECHI DRIVE NORTH HAVEN, CONNECTICUT				1
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 04//20/200



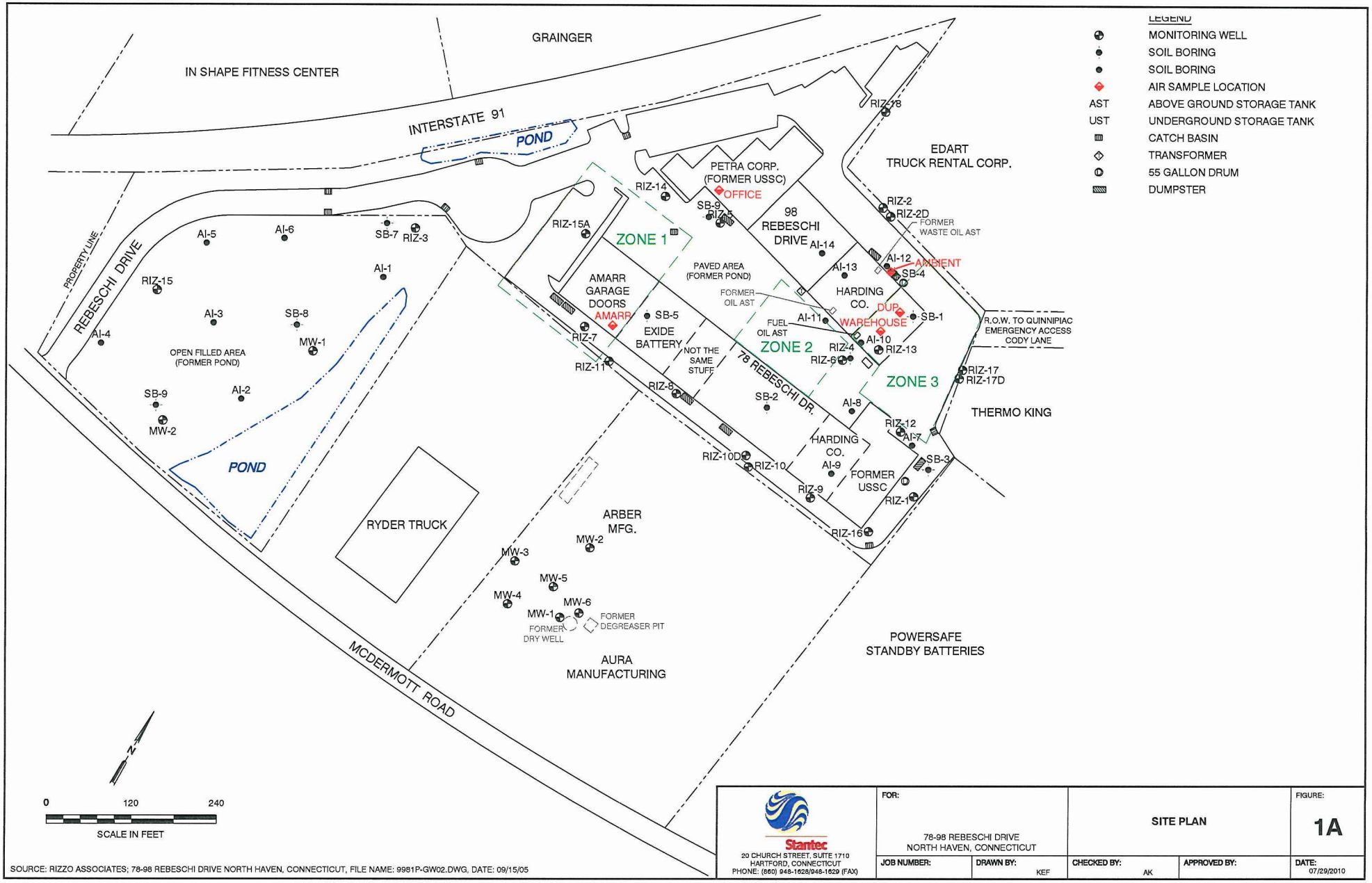
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT
PHONE: (860) 948-1628/948-1629 (FAX)

FOR:		SITE PLAN		FIGURE:
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				8
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 05/21/2010

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN,CT

62OT-1143-SM.DWG

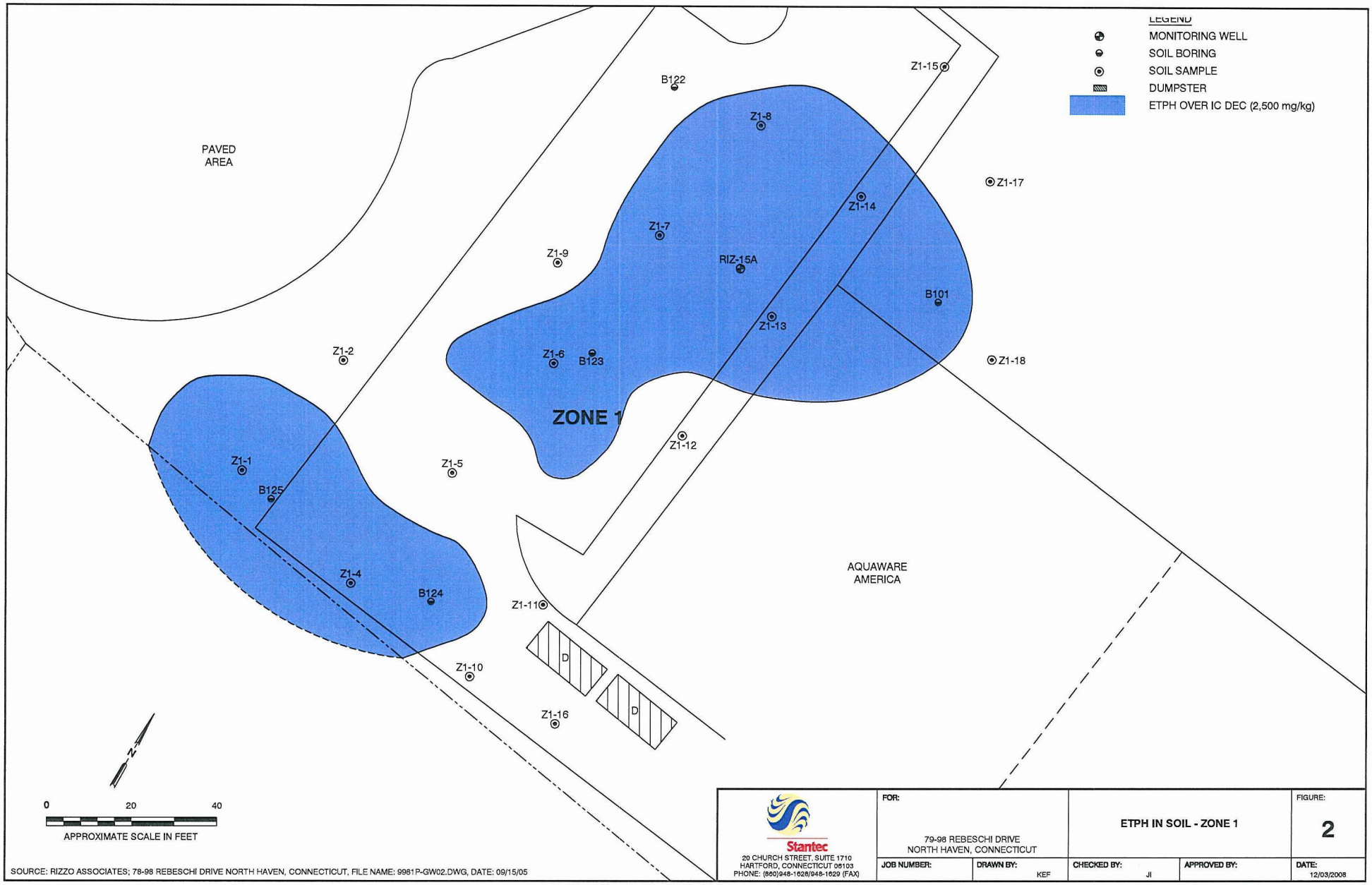


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec 20 CHURCH STREET, SUITE 1710 HARTFORD, CONNECTICUT PHONE: (860) 948-1628/948-1629 (FAX)	FOR: 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		SITE PLAN		FIGURE: 1A
	JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: AK	APPROVED BY:	DATE: 07/29/2010

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN,CT

62OT-1143-AMB-AIR.DWG



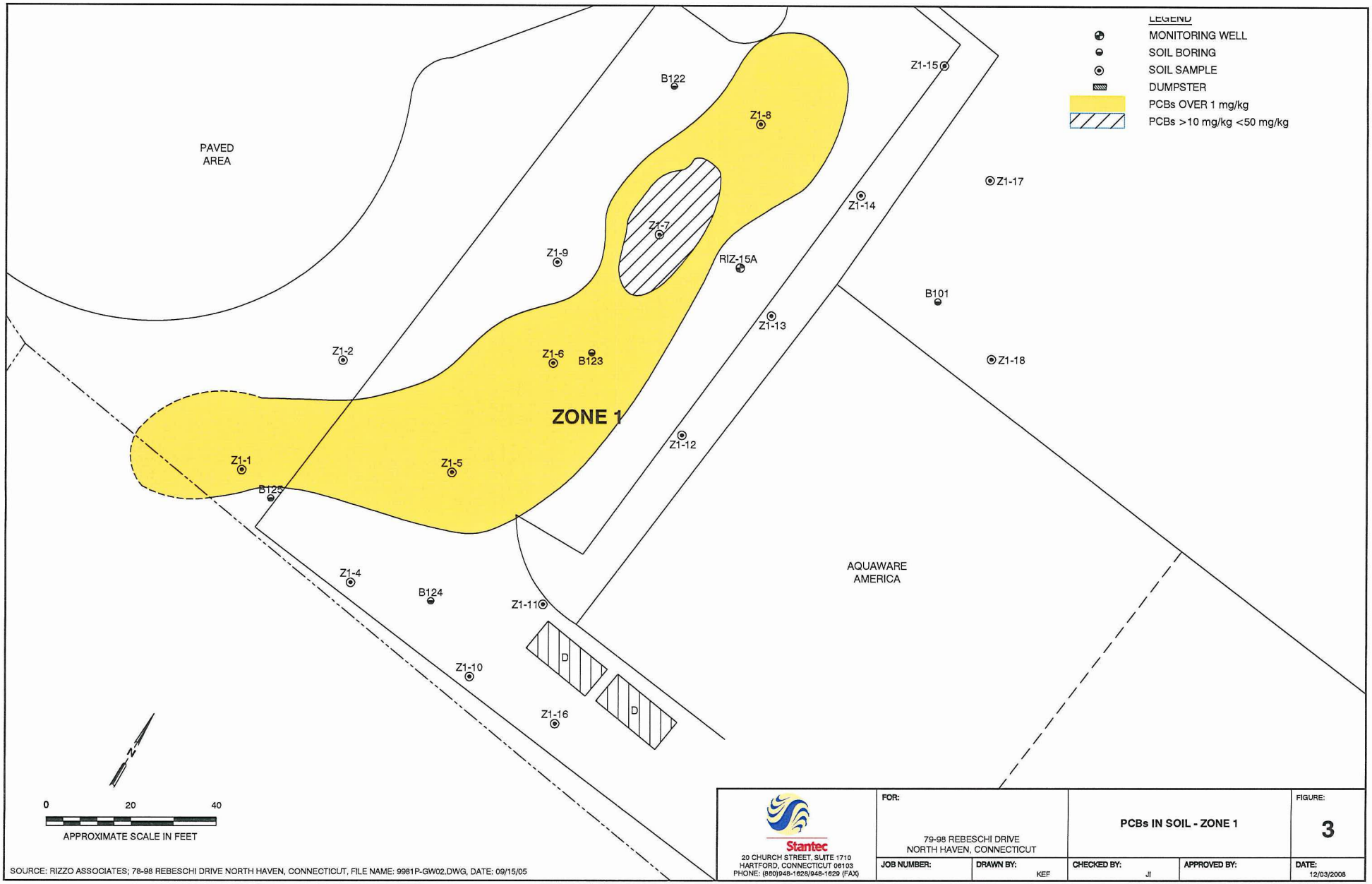
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR: 79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		ETPH IN SOIL - ZONE 1	FIGURE: 2
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

62OT-1143-ZONE1-ETPH.DWG



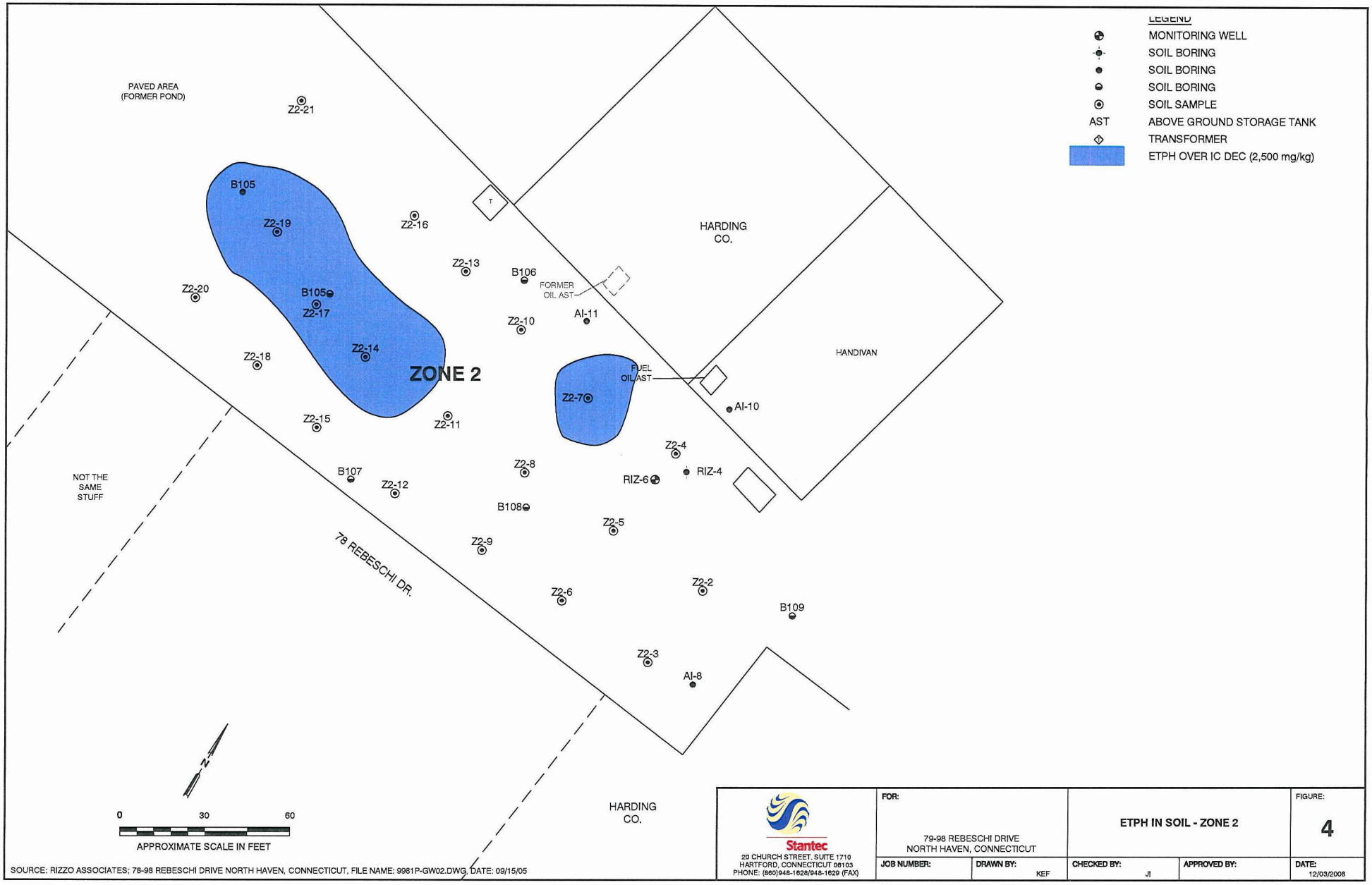
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PCBs IN SOIL - ZONE 1	FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT			3
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

62OT-1143-ZONE1-PCB.DWG

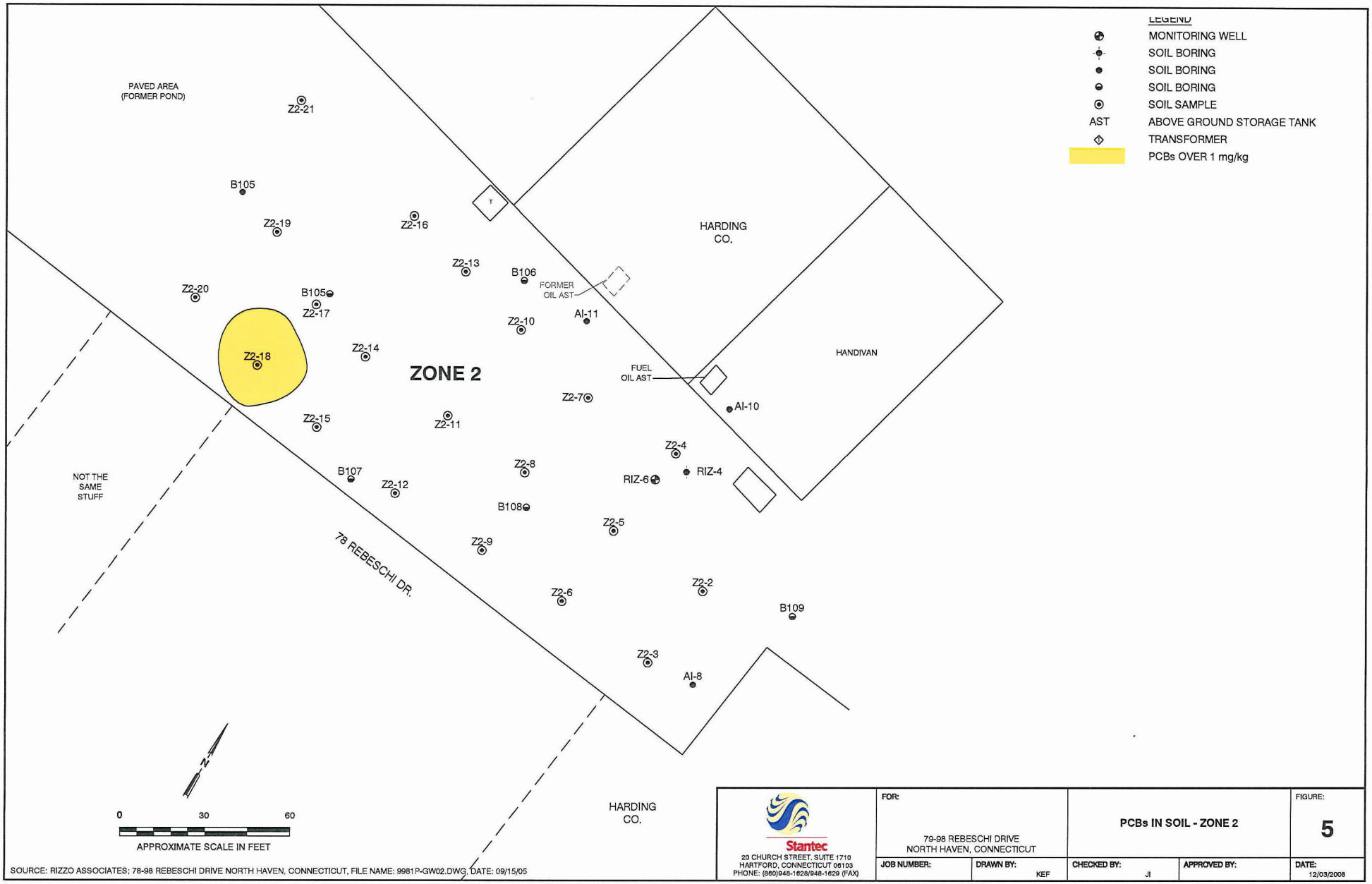


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR: 79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		ETPH IN SOIL - ZONE 2		FIGURE: 4
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

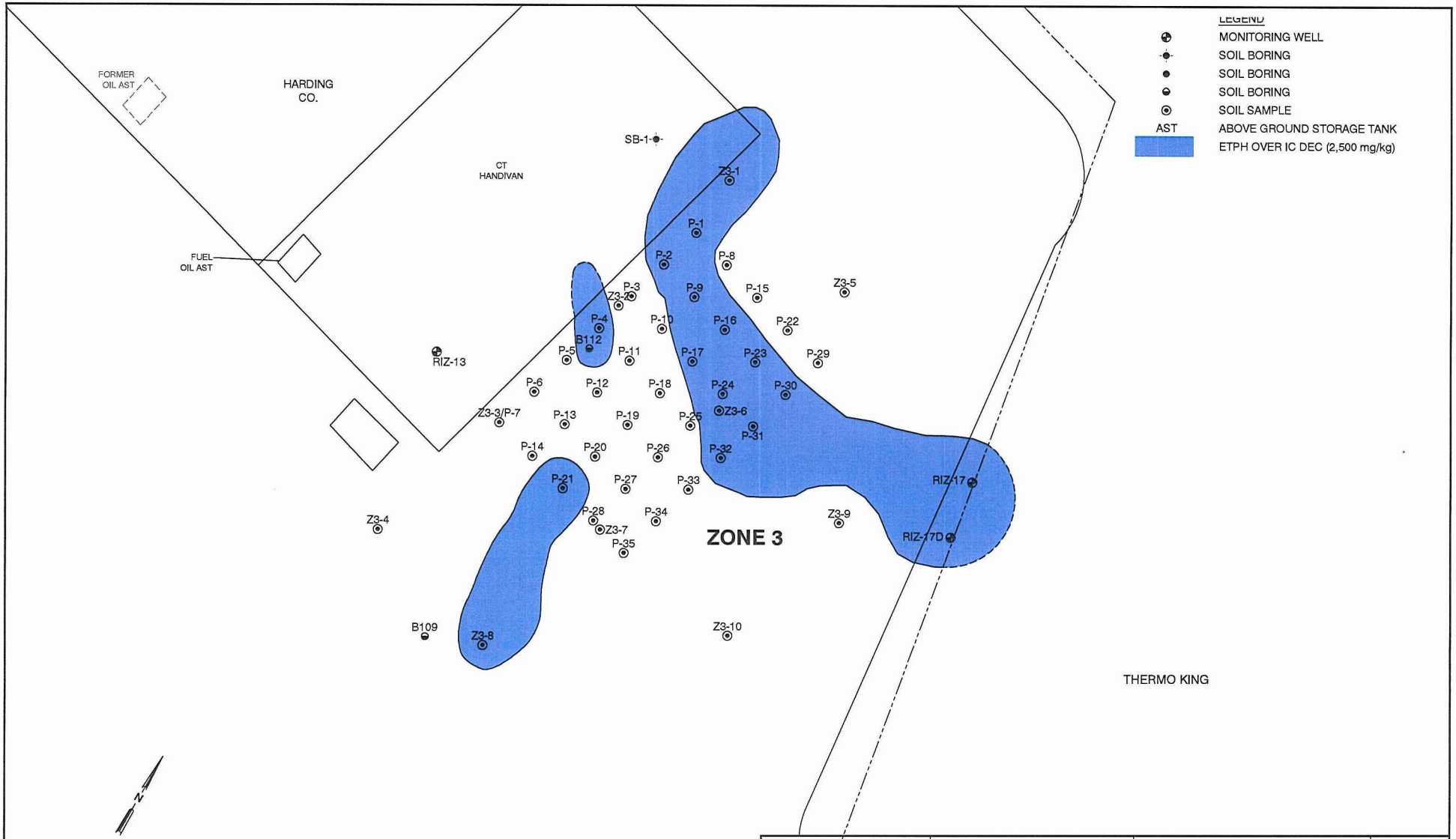


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PCBs IN SOIL - ZONE 2		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				5
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN



SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		ETPH IN SOIL - ZONE 3		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				6
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

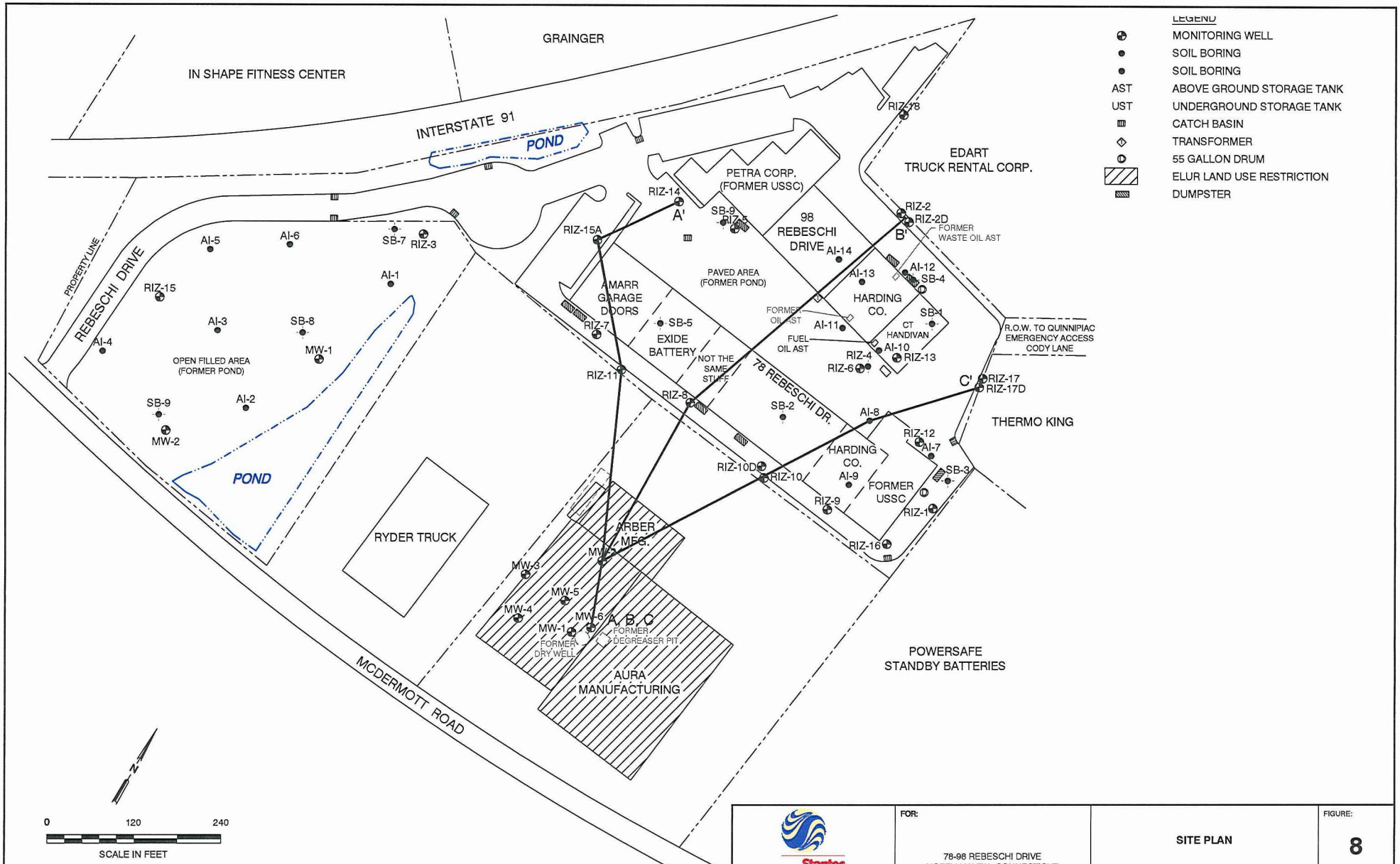
FILEPATH: NORTH HAVEN

SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PCBs IN SOIL - ZONE 3		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				7
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN



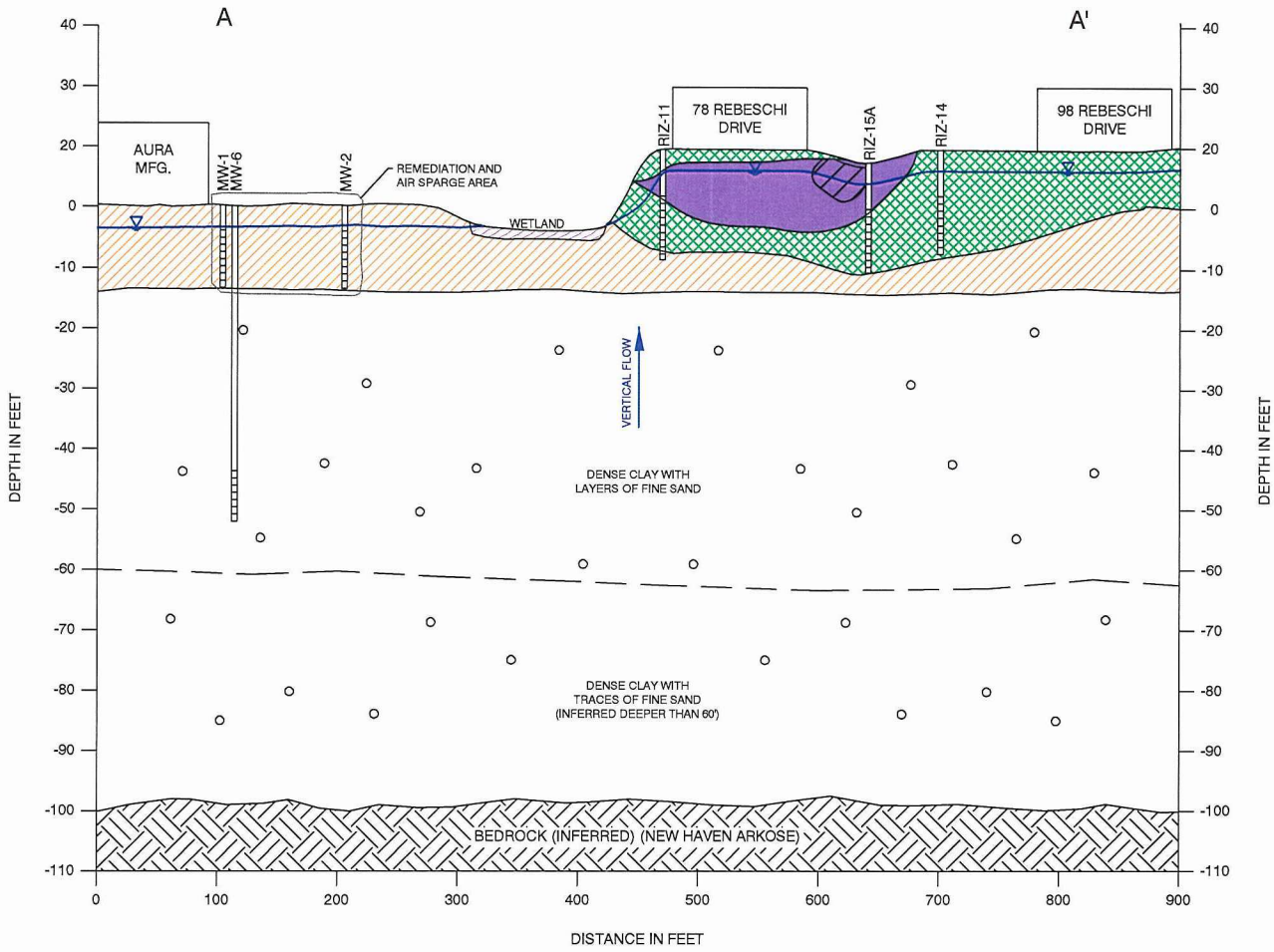
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT
PHONE: (860) 948-1628/948-1629 (FAX)

FOR:		SITE PLAN		FIGURE:
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				8
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 05/21/2010

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN,CT

62OT-1143-SM.DWG



LEGEND

- MUCK (WETLAND)
- SAND, SILT AND GRAVEL WITH BRICK, TRASH AND WOOD (FILL)
- SAND, SILT AND GRAVEL, TRENDING TO CLAY
- ETPH OVER IC DEC (2,500 mg/kg) AND PCBs OVER 1 mg/kg
- PCBs >10 mg/kg <50 mg/kg

Stantec
20 CHURCH STREET, SUITE 1710
HARDFORD, CONNECTICUT
PHONE: (860)948-1628/948-1629 (FAX)

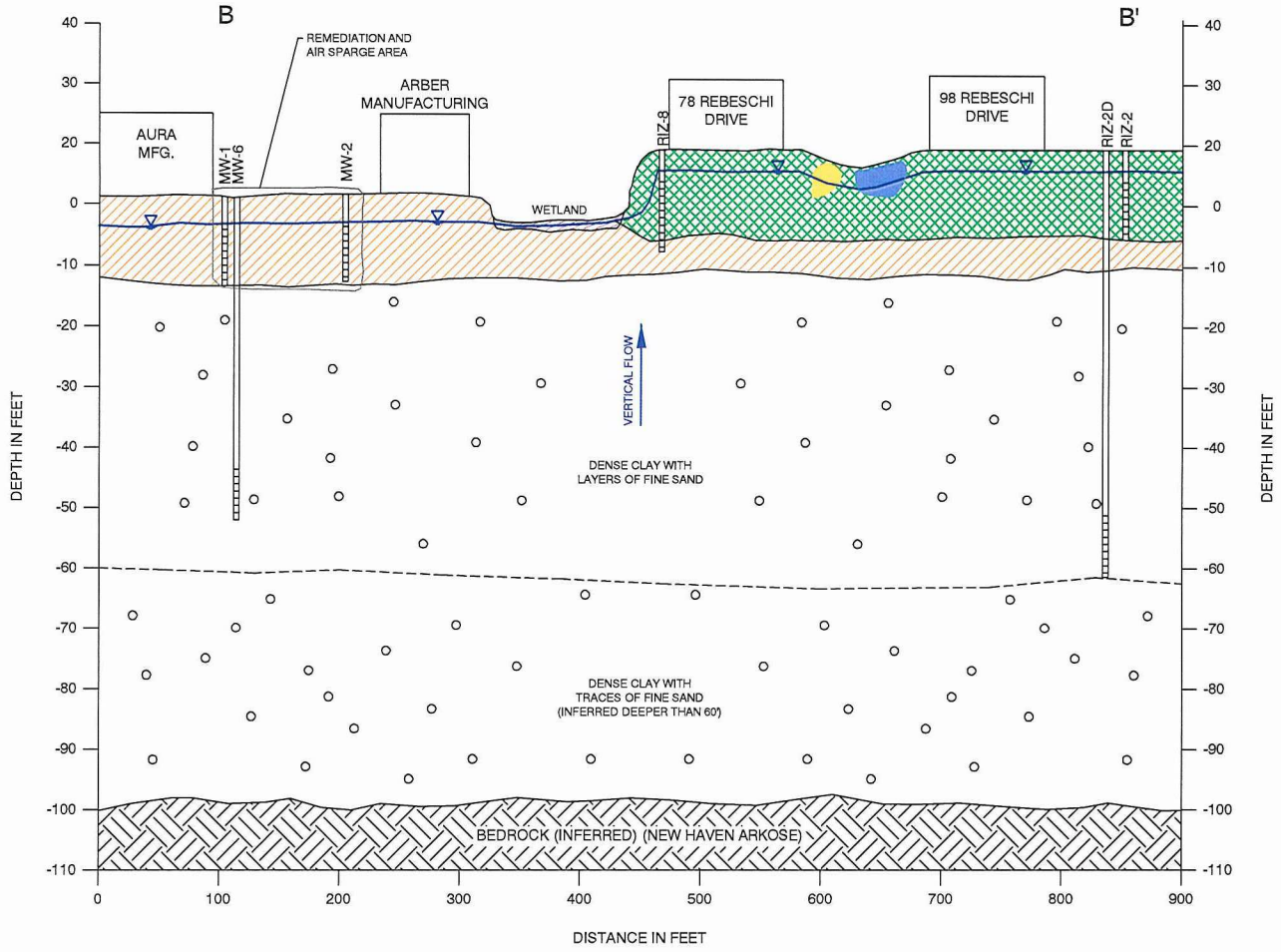
FOR: 79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT

GEOLOGIC CROSS-SECTION A-A'

FIGURE: **9**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	KEF/ARA	JI		8/11/09

FILEPATH:C:\Documents and Settings\kfarrell\My Documents\CADD FILES\CT OFFICE\RESBESCHI DRIVE - NORTH HAVEN (01143)\62OT-1143-SECTA-A.dwg|KFarrell|Jul 28, 2010 at 13:13|Layout: Model



LEGEND

- MUCK (WETLAND)
- SAND, SILT AND GRAVEL WITH BRICK, TRASH AND WOOD (FILL)
- SAND, SILT AND GRAVEL, TRENDING TO CLAY
- ETPH OVER 1C DEC (2,500 mg/kg)
- PCBs OVER 1 mg/kg

Stantec
20 CHURCH STREET, SUITE 1710
HARDFORD, CONNECTICUT
PHONE: (860)948-1628/948-1629 (FAX)

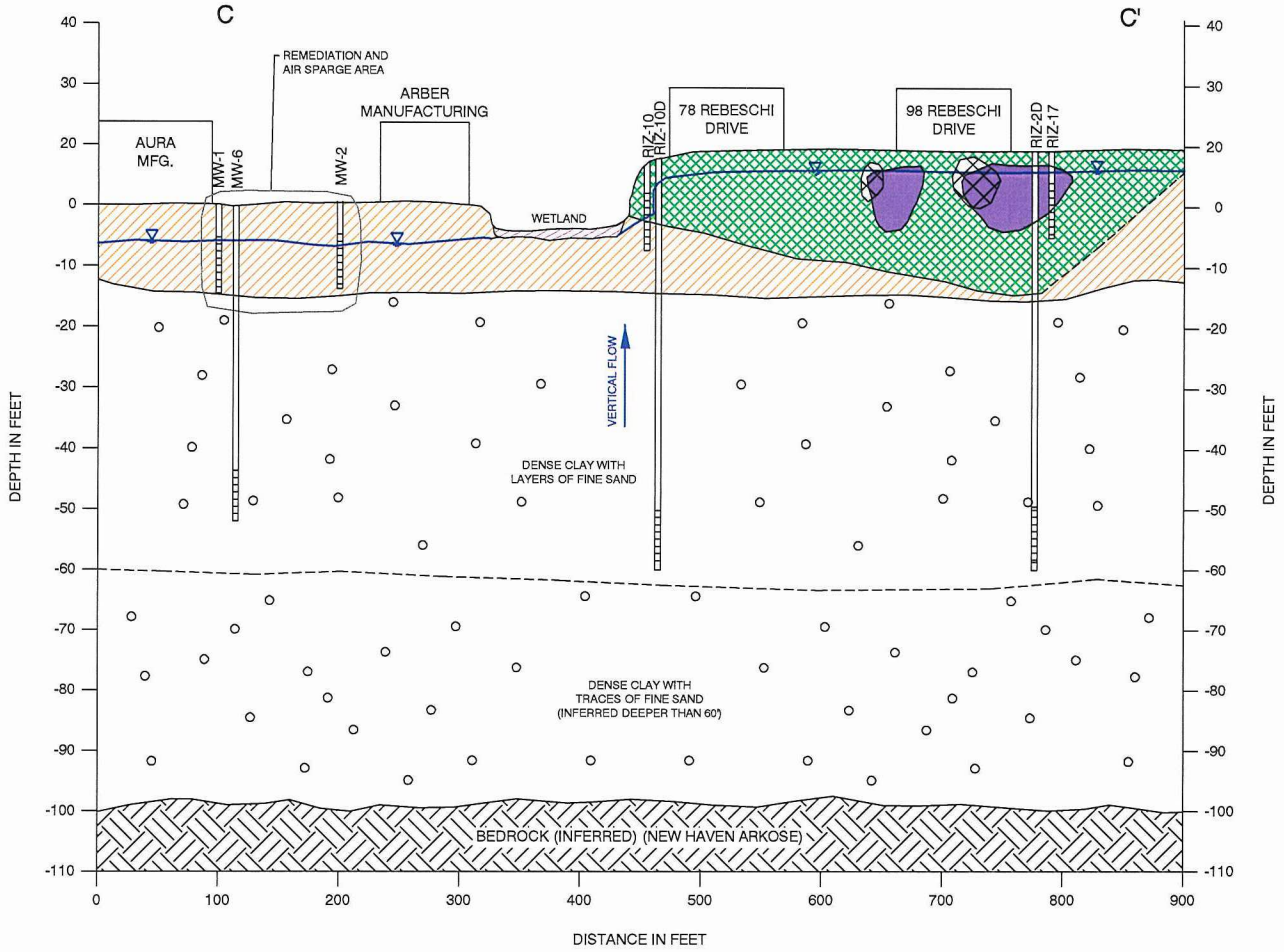
FOR: 79-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

GEOLOGIC CROSS-SECTION B-B'

FIGURE: **10**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	KEF/ARA	JI		8/11/09

FILEPATH:C:\Documents and Settings\kfarrell\My Documents\CADD FILES\CT OFFICE\RESBESCHI DRIVE - NORTH HAVEN (01143)\62OT-1143-SECTB-B.dwg|KFarrell|Jul 28, 2010 at 13:14|Layout: Model



LEGEND

- MUCK (WETLAND)
- SAND, SILT AND GRAVEL WITH BRICK, TRASH AND WOOD (FILL)
- SAND, SILT AND GRAVEL, TRENDING TO CLAY
- ETPH OVER IC DEC (2,500 mg/kg) AND PCBs OVER 1 mg/kg
- PCBs >10 mg/kg <50 mg/kg
- PCBs OVER <50 mg/kg

Stantec
20 CHURCH STREET, SUITE 1710
HARDFORD, CONNECTICUT
PHONE: (860)948-1628/948-1629 (FAX)

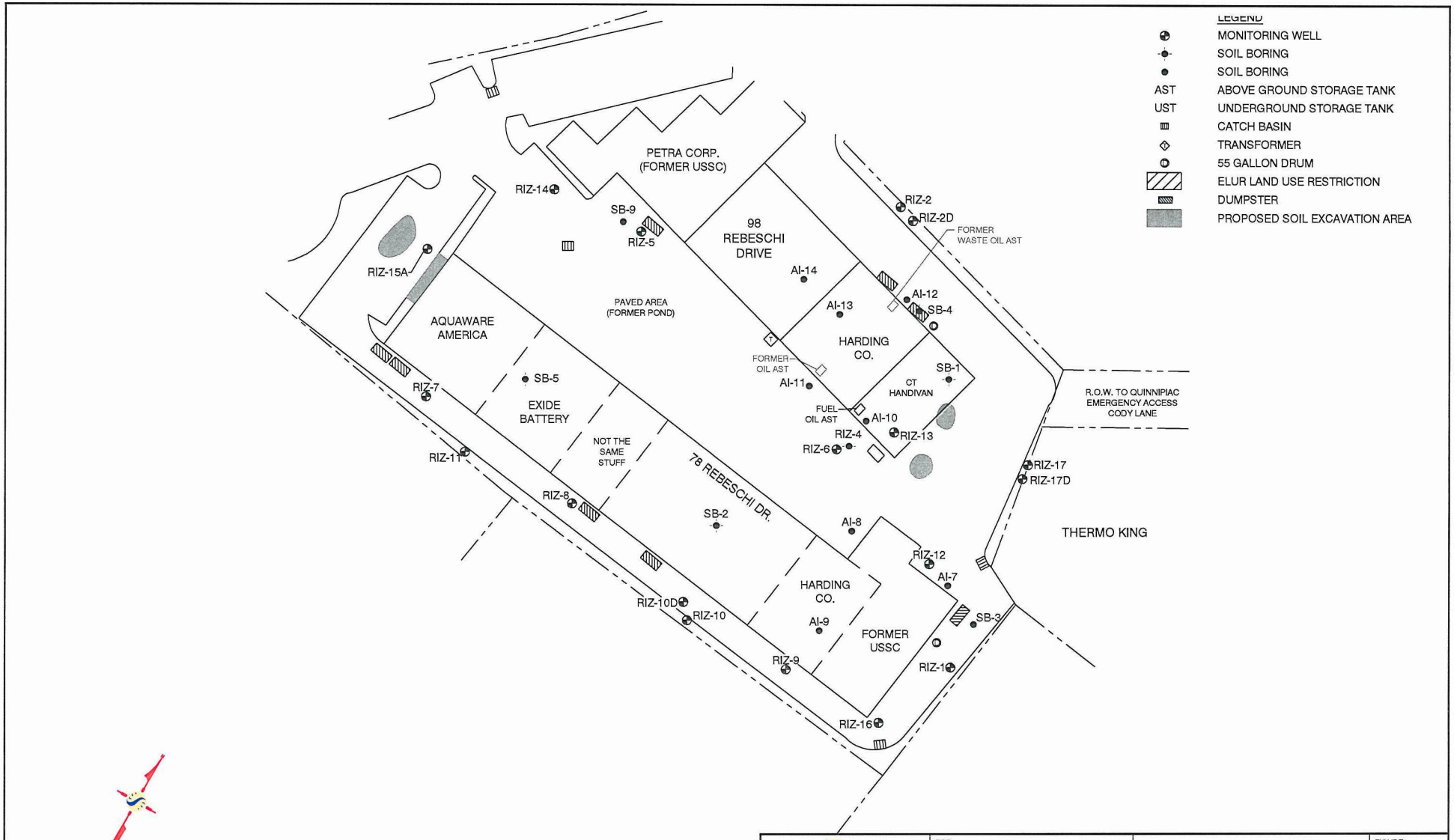
FOR:
79-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

GEOLOGIC CROSS-SECTION C-C'

FIGURE: **11**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	KEF/ARA	JI		8/11/09

FILEPATH:C:\Documents and Settings\kfarrell\My Documents\CADD FILES\CT OFFICE\RESBESCHI DRIVE - NORTH HAVEN (01143)\62OT-1143-SECTC-C.dwg|KFarrell|Jul 28, 2010 at 13:14|Layout: Model



SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARDFORD, CONNECTICUT
PHONE: (860)948-1628/948-1629 (FAX)

FOR:			FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT	PROPOSED SOIL EXCAVATION AREAS		12
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 07/26/2010

FILEPATH: NORTH HAVEN (01143)

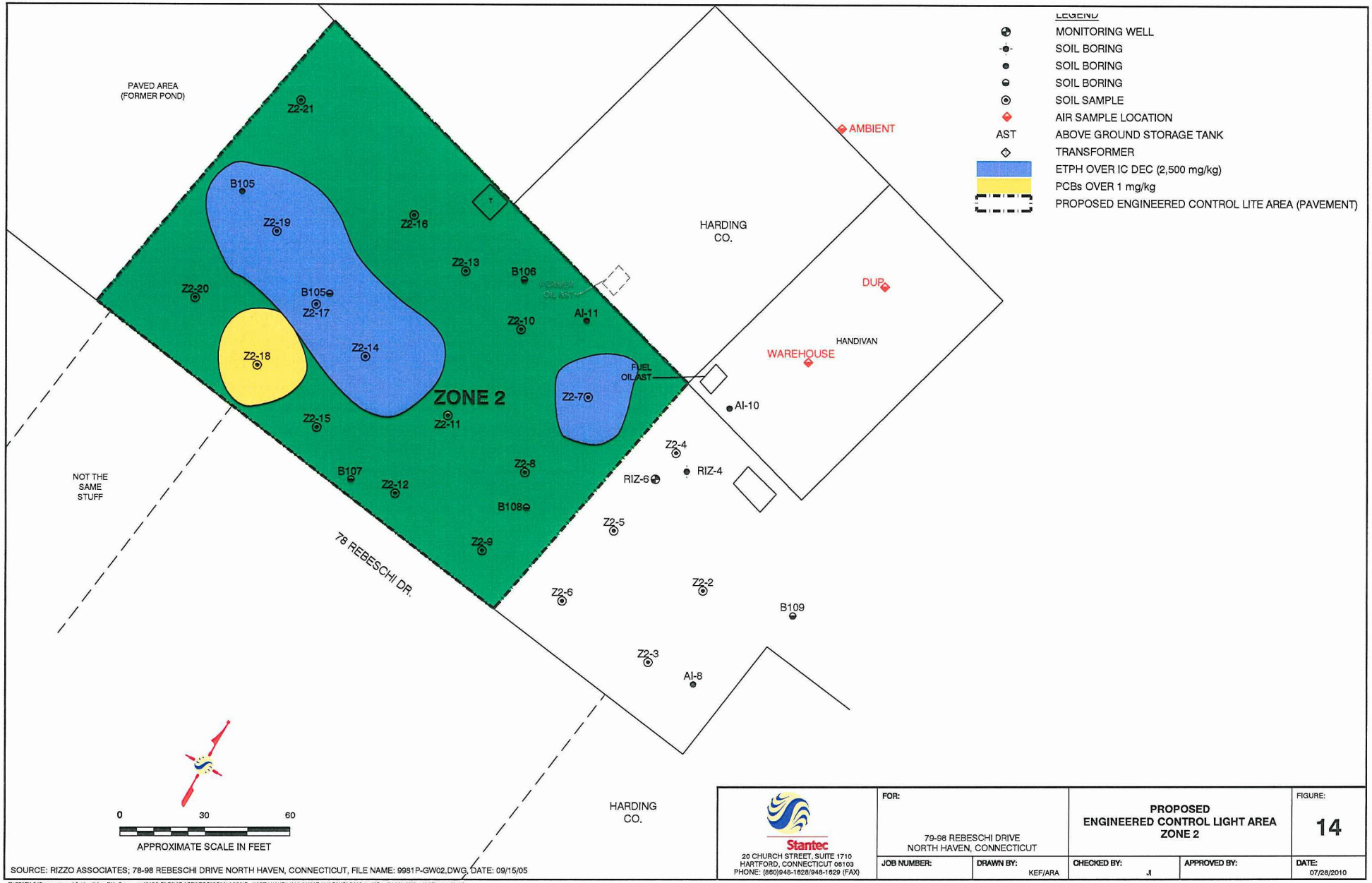
62OT-1143-SOILEX.DWG

SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

FILEPATH:C:\Documents and Settings\kfarrell\My Documents\CADD FILES\CT OFFICE\RESBESCHI DRIVE - NORTH HAVEN (01143)\62OT-1143-ZONE1-PCAP.dwg|KFarrell|Jul 28, 2010 at 16:40|Layout: Model

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

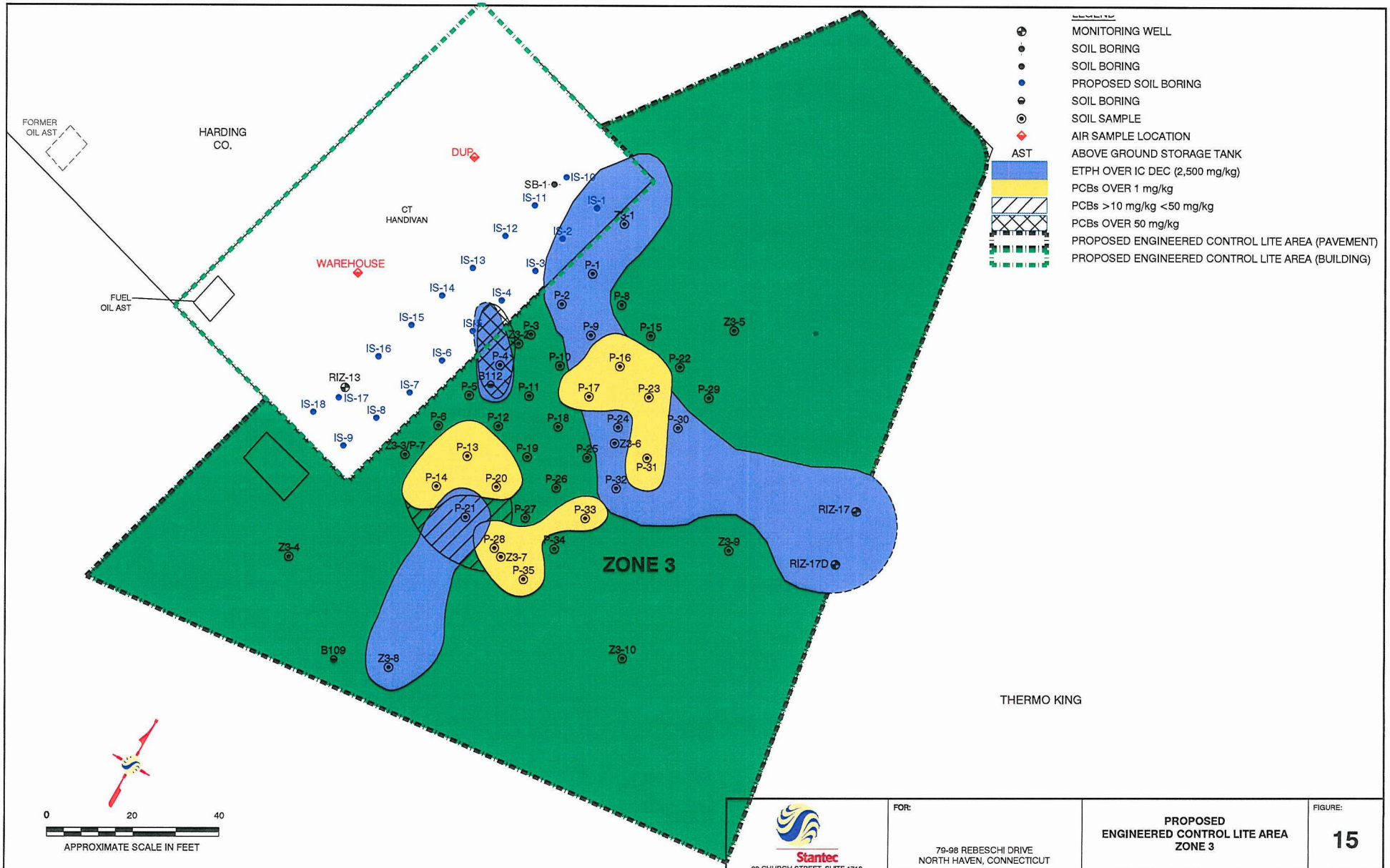
FOR:		PROPOSED ENGINEERED CONTROL LITE AREA ZONE 1	FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT			13
JOB NUMBER:	DRAWN BY: KEF/ARA	CHECKED BY: JI	APPROVED BY:	DATE: 07/28/2010



SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PROPOSED ENGINEERED CONTROL LIGHT AREA ZONE 2		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				14
JOB NUMBER:	DRAWN BY: KEF/ARA	CHECKED BY: JI	APPROVED BY:	DATE: 07/28/2010



SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:
79-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

PROPOSED ENGINEERED CONTROL LITE AREA ZONE 3

FIGURE: **15**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	KEF/ARA	JI		07/29/2010

FILEPATH:C:\Documents and Settings\kfarrell\My Documents\CADD FILES\CT OFFICE\RESBESCHI DRIVE - NORTH HAVEN (01143)\62OT-1143-ZONE3-PCAP.dwg|KFarrell|Jul 29, 2010 at 13:35|Layout: Model

A

PCB AND PETROLEUM IMPACTED SOIL DELINEATION

78-98 Rebeschi Drive

North Haven, Connecticut

Prepared For:

Winstanley Enterprises LLC

December 4, 2008

63OT.0.01297.08

Stantec

Stantec Consulting Services, Inc.
20 Church Street, Suite 1710
Hartford, CT 06103
860-948-1628 (p) 860-948-1629 (f)
stantec.com

PCB AND PETROLEUM IMPACTED SOIL DELINEATION

78-98 Rebeschi Drive
North Haven, Connecticut

Stantec PN: 63OT.01297.08/0003

Submitted by:
Stantec Consulting Services, Inc.
20 Church Street, 17th Floor
Suite 1710
Hartford, Connecticut 06103

Prepared for:
Winstanley Enterprises LLC
150 Baker Avenue Extension
Suite 303
Concord, MA 01742

December 4, 2008

Reviewed by:

John Insall, L.E.P.
Senior Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 EXECUTIVE SUMMARY

Stantec Consulting Services, Inc. (STANTEC) is pleased to present the findings of extractable total petroleum hydrocarbons (ETPH) and polychlorinated biphenyls (PCBs) impacted soil delineation in three areas of the property. During site characterization in 2007 and 2008, STANTEC identified three areas where elevated ETPH and PCB concentrations exist. The areas were designated Zones 1 through 3. Zone 1 is located in the Aquaware of America parking lot at the west-side of 78 Rebeschi Drive. Zone 2 is located in the paved parking areas between 78 and 98 Rebeschi Drive. Zone 3 is located at the east-side of the 98 Rebeschi Drive building. Data collected during the initial investigation activities are included in Table 1.

PCBs (55 mg/kg) were detected above 50 mg/kg in Zone 3, the threshold for regulation under the Toxic Substances Control Act (TSCA). The results of the initial investigation were communicated to Ms. Kim Tisa, EPA Region 1 PCB Coordinator. EPA confirmed that the self implementing TSCA investigation and remediation requirements apply to the site. EPA suggested that an appropriate soil sampling grid would be 10 feet on center in those areas where PCBs exist over 50 mg/kg. In other areas, EPA indicated that a less concentrated sampling grid may be appropriate.

STANTEC developed a Quality Assurance Project Plan (QAPP) that governed the sampling activities, protocols, and data analysis for the impacted soil delineation project. A copy of the QAPP is appended to this document.

Soil samples were collected in a grid established by STANTEC to respond to the EPA's recommendations. The sampling protocol was also designed to provide data for site characterization under the Connecticut Transfer Act and Remediation Standard Regulations (RSRs). As such, selected samples were also analyzed for ETPH. During sampling, heavy hydrocarbon odors were encountered. In those locations, STANTEC modified the Contaminant of Concern (COC) list to include semi-volatile organic compounds (SVOCs).

ETPH was measured above the industrial/commercial criteria (IC DEC) in soil samples collected from 3 to 12 feet below grade in Zone 1 (Figure 2). The highest petroleum concentrations were measured in the saturated groundwater zone from 7-12 fbg. This depth represents the smear zone where groundwater fluctuates during the year. Based on field observations and groundwater elevations, it appears that the seasonal high groundwater table is 7-8 fbg. Elevated PCB concentrations were also detected in this area. PCBs over 10 mg/kg were encountered in the center of the petroleum impacted area (Figure 3).

ETPH was measured above the IC DEC at the west-side of Zone 2 from 3-4 fbg (Figure 4). Lower ETPH concentrations were detected in the smear zone. An isolated area of PCB impacted soil was identified at Z2-18 from 7-8 fbg (Figure 5).

ETPH was measured above the IC DEC in three areas of Zone 3 (Figure 6). The highest ETPH concentrations were detected from 7-15 fbg. The depth to the seasonal high groundwater table is approximately 7-8 fbg. PCBs were also detected in several areas of Zone 3. The highest PCB concentrations were detected in areas that are partially coincident with the elevated ETPH zones. As a result, PCBs may be associated with elevated ETPH in some instances (Figure 7).

Elevated SVOC concentrations were detected in the samples submitted for SVOC analysis. The SVOC concentrations exceeded the GB PMC and/or IC DEC in most of the samples submitted for SVOC analysis. VOCs were mostly coincident with petroleum and PCB impacted soil.

Figures 8, 9, 10, and 11 are geologic cross-sections that conceptually illustrate the impacted soil zones.

Based on the delineation data, STANTEC revised the conceptual site model (CSM) for the site. Historical property uses included brick manufacturing and clay mining (for brick stock). Historical mining created a large pond on-site. In the 1950s, 1960s, and 1970s the pond was filled. The site was redeveloped in the 1980s as a light commercial and industrial complex. Soil and groundwater sampling has been conducted from the mid 1990s to the present. Based on these investigations, it does not appear that on-site operations since redevelopment have resulted in releases of petroleum or hazardous materials.

ETPH, PCBs, and SVOCs have been detected in saturated and unsaturated soil. The source of PCBs and ETPH appears to be historical fill materials, since most soil on-site contains significant quantities of wood, ash, brick, and other debris. Elevated SVOC concentrations may be partly attributable to the disposal of wood ash. Wood was used to fire bricks from the late 1800s to 1950s. However, since field observations suggest that the SVOCs are part of a heavy petroleum product mixed with wood debris, the SVOCs may be related to creosote wood preservative waste deposited as fill from an off-site source. No historical wood preserving was conducted on-site.

Groundwater at the site may be impacted by VOCs and SVOCs. For example, benzene exceeds the SWPC at RIZ-15A. Since RIZ-15A is near an on-site pond and the Quinnipiac River, groundwater remediation may be required to reduce benzene and other organics above the SWPC in groundwater. Similarly, groundwater remediation may be required to address exceedances of the volatilization criteria.

Based on the nature of surficial deposits, we anticipate that off-site migration is not occurring. Similarly, since the site is located in a GB area, we do not anticipate that groundwater is used as a drinking water source. No endangered species are known to exist on-site. As a result, no sensitive receptors were identified.

Remediation strategies may include the removal of PCBs over 10 mg/kg, the use of an engineered control for PCBs between 1 and 10 mg/kg, soil remediation by excavation in the unsaturated and saturated zones, in-situ treatment in the saturated zone using bioremediation or oxidation, the use of an environmental land use restriction (ELUR), and natural attenuation monitoring. The draft revisions to the RSRs may permit some petroleum to remain. Alternatively, it may be possible to obtain a variance for some ETPH that is not practical to remove or treat in situ.

Conclusions

The data are suitable to support a work plan for remediation of the petroleum, PCB, and SVOC release areas at the site. STANTEC is developing a remediation work plan for submission to DEP and EPA for comment under the TSCA self implementing remediation regulations. The data are also suitable for designing a remedial strategy for compliance with the RSRs.

A sensitive receptor survey is required to confirm that no sensitive receptors exist in the vicinity.

2.0 INTRODUCTION

STANTEC conducted the petroleum and PCB impacted soil delineation project to provide data for impacted soil zones that may require remediation. The investigation was designed to provide data on the horizontal and vertical extent of impacted soil. Each soil boring was advanced to 15 fbg to evaluate soil to the depth at which the Direct Exposure Criteria (DEC) applies. In general, multiple samples were collected from each soil boring to provide vertical profile data.

Historical fill materials were identified as the Area of Concern (AOC) with which the impacted soil was identified. Based on historical sampling data, it does not appear that historical operations since redevelopment have resulted in a release of hazardous substances or petroleum to soil or groundwater. A contaminant of concern (COC) list was developed for the fill based on historical sampling results. STANTEC determined that ETPH and PCBs were the appropriate COCs for this AOC. However, based on field observations, STANTEC added semi-volatile organic compounds (SVOCs) to the COC list. In most cases, the heavy hydrocarbons noted during sampling appeared to be related to a heavy weight petroleum product such as creosote or wood preserving waste. A large volume of wood waste was also found in the impacted fill. The source of the wood could not be determined, but may be related to wood preserving wastes, if deposited at the site.

The presence of PCBs in historical wood preservatives is documented in available literature regarding the use of PCBs. Wood preserving, using creosote and PCBs, was conducted at other sites in North Haven, including the nearby Moss American Superfund site on Universal Drive. As such, it is possible that fill impacted with creosote and PCBs from off-site was used to fill the on-site pond. STANTEC has contacted EPA Region 1 to determine if EPA has additional information regarding the placement of fill contaminated with PCBs and creosote in North Haven.

The sampling and impacted soil delineation was conducted under a Quality Assurance Project Plan (APP) (Appendix A).

3.0 PRELIMINARY ACTIVITIES

To evaluate PCB and petroleum impacted fill, STANTEC advanced 78 soil borings in the three impacted soil zones. Samples were analyzed for ETPH and PCBs by EPA Method 8081B, using EPA extraction Method 3540C.

Prior to soil boring and monitoring well installation, STANTEC contacted Call Before You Dig to obtain a utility clearance for well and boring locations. STANTEC was issued ticket numbers 20083303279.

In addition, STANTEC retained a private utility locating service (Underground Construction Services, Inc.) to clear individual boring locations. Individual soil boring locations

4.0 SOIL SAMPLING

Soil samples were collected from borings and monitoring well locations between August 23, 2008 and September 29, 2008 using a Geoprobe and truck mounted drilling rig. Soil at each location was screened with a calibrated PID equipped with an 11.7 eV lamp.

In zones 1 and 2, and part of Zone 3, soil borings were spaced 35-40 feet on center to address Transfer Act site characterization requirements. In zone 3, soil borings were positioned 10 feet on center in the TSCA regulated area. In the Transfer Act regulated area of Zone 3, two selected soil borings were collected from each boring and analyzed for PCBs by EPA method 3540C and ETPH. In some instances where no recovery or refusal was encountered, it was not possible to collect the planned number of samples.

Soils selected for analysis were be based on field screening results. In the Transfer Act regulated areas of zones 1 and 2, soil samples were collected 1) when impacted soil became evident, and 2) below the saturated groundwater zone (where it appeared the release diminished). Since the DEC applies to 15 fbg, each boring was advanced to 15 fbg. In the TSCA regulated areas, soil samples were collected every other foot from the surface to 15 fbg and analyzed for PCBs by EPA Method 3540c. Selected soil samples in the TSCA regulated area were also submitted for ETPH analysis. These soil samples were based on field screening results and designed to delineate the volume of ETPH impacted soil in this area.

Soil samples were collected using a direct push Geoprobe. Soil was collected from the appropriate sampling interval using disposable polyethylene scoops. Soil from the representative depth was homogenized in disposable paper bowls. Each sample was homogenized in new and uncontaminated scoops and bowls before being transferred into laboratory glassware. Samples were labeled and recorded on a chain of custody (COC) on a daily basis.

Soil descriptions were recorded in the field. Field screening results including PID readings, staining, grain characteristics, and the presence of fill materials were also recorded.

Prior to delivery to the laboratory, soil samples were stored on ice at 4 degrees Celsius.

All soil samples were collected using the CT DEP soil sampling guidance document dated February 2006.

After each soil boring had been completed, borings were backfilled with soil cuttings and the surface was repaired with asphalt patch or concrete, as appropriate.

Soil will be delivered to the lab for PCB and ETPH analyses using extraction method 3540c. Selected samples were also analyzed for SVOCs by EPA Method 8270.

Non-dedicated sampling equipment used, such as Geoprobe shoes, were cleaned and decontaminated at a decontamination pad by scrubbing with Alconox, rinsing with a fresh water rinse, rinsing with hexane, and air drying before re-use.

5.0 SOIL SAMPLING RESULTS

ETPH was measured above the industrial/commercial criteria (IC DEC) in soil samples collected from 3 to 12 feet below grade in Zone 1 (Figure 2). The highest petroleum concentrations were detected in the saturated groundwater zone from 7-12 fbg. This depth represents the smear zone where groundwater fluctuates during the year. Based on field observations and groundwater elevations, it appears that the seasonal high groundwater table is 7-8 fbg. Elevated PCB concentrations were also detected in this area. PCBs over 10 mg/kg were encountered in the center of the petroleum impacted area (Figure 3).

ETPH was measured above the IC DEC at the west-side of Zone 2 from 3-4 fbg (Figure 4). Lower ETPH concentrations were detected in the smear zone. An isolated area of PCB impacted soil was identified at Z2-18 from 7-8 fbg (Figure 5).

ETPH was measured above the IC DEC in three areas of Zone 3 (Figure 6). The highest ETPH concentrations were detected from 7-15 fbg. The depth to the seasonal high groundwater table is approximately 7-8. PCBs were detected in several areas in Zone 3. The highest PCB concentrations were detected in areas that are partially coincident with the elevated ETPH zones. As a result, PCBs may be associated with elevated ETPH (Figure 7).

Elevated SVOC concentrations were detected in the samples submitted for SVOC analysis. The SVOC concentrations exceeded the GB PMC and/or IC DEC in most samples submitted for analysis. VOCs were mostly coincident with petroleum and PCB impacted soil.

Figures 8, 9, 10, and 11 are geologic cross-sections that conceptually illustrate the impacted soil zones.

6.0 REVISED CONCEPTUAL SITE MODEL

Based on the newly obtained data, STANTEC revised the conceptual site model (CSM) for the site. Historical property uses included brick manufacturing and clay mining (for brick stock). Historical mining created a large pond on-site. In the 1950s, 1960s and 1970s, the pond was filled. The site was redeveloped in the 1980s as a light commercial and industrial complex. Soil and groundwater sampling has been conducted from the mid 1990s to the present. Based on these investigations, it does not appear that on-site operations since redevelopment have resulted in releases of petroleum or hazardous materials.

Petroleum (ETPH), PCBs, and SVOCs have been detected in saturated and unsaturated soil. The source of PCBs and ETPH appears to be historical fill materials, since most soil on-site contains significant quantities of wood, ash, brick, and other debris. Elevated SVOC concentrations may be partly attributable to the disposal of wood ash. Wood was used to fire bricks from the late 1800s to 1950s. However, since field observations suggest that the SVOCs are part of a heavy petroleum product mixed with wood debris, the SVOCs may be related to creosote wood preservative waste deposited as fill from an off-site source. No historical wood preserving was conducted on-site.

Based on the nature of surficial deposits, we anticipate that off-site migration is not occurring. Similarly, since the site is located in a GB area, we do not anticipate that groundwater is used as a drinking water source. No endangered species are known to exist on-site. As a result, no sensitive receptors were identified.

7.0 REMEDIATION STRATEGY

Remediation strategies may include the removal of PCBs over 10 mg/kg, the use of an engineered control for PCBs between 1 and 10 mg/kg, soil remediation by excavation in the unsaturated and saturated zones, in-situ treatment in the saturated zone using bioremediation or oxidation, the use of an environmental land use restriction (ELUR), and natural attenuation monitoring. The revised RSRs may permit some petroleum to remain under certain conditions. Alternatively, it may be possible to obtain a variance for some ETPH that is not practical to remove or treat in situ.

The use of ORCs to treat petroleum and SVOCs in-situ would be subject to the DEP's soon to be released *Oxygen Releasing General Permit*. The draft permit will be released for public comment in mid-December 2008. The permit is intended to streamline the permit approval process to supply oxygen or other electron donors to biologically treat petroleum based products.

The other remediation strategies will require discussion with DEP and EPA.

8.0 VOLUMETRIC CALCULATIONS

Based on the data, STANTEC calculated volume estimates for the impacted soil zones above the regulatory criteria. Since the site may be suitable for an ELUR for non-residential use, the IC DEC as the threshold for calculating soil volumes.

Estimated soil volumes exceeding regulatory criteria are summarized below. Soil in these zones will require excavation, in-situ treatment or other management strategies available under the RSRs. EPA may also allow certain soils to remain in place under certain conditions.

Zone 1

ETPH Impacted Soil = 2,533 yds^3
PCB Impacted Soil (1 to 10 mg/kg) = 1,700 yds^3
PCB Impacted Soil (10 to 50 mg/kg) = 200 yds^3

Zone 2

ETPH Impacted Soil = 1,466 yds^3
PCB Impacted Soil (1 to 10 mg/kg) = 200 yds^3

Zone 3

ETPH Impacted Soil = 1,288 yds^3
PCB Impacted Soil (1 to 10 mg/kg) = 500 yds^3
PCB Impacted Soil (10 to 50 mg/kg) = 175 yds^3
PCB Impacted Soil (over 50 mg/kg) = 100 yds^3

The data will be used to develop a work plan for DEP and EPA approval. Impacted soil estimates are approximate and can change when additional data become available.

9.0 DATA QUALITY REVIEW

STANTEC reviewed the data package provided by the laboratory for each sample lot. The data review was intended to ensure that the data meet data quality objectives set by STANTEC.

- No significant data quality issues were identified during the review.
- In addition, no significant deviations in analytical methods, sampling handling, or chain of custody were identified.

10.0 CONCLUSIONS

The data are suitable to support a work plan for remediation of the petroleum, PCB, and SVOC release areas at the site. STANTEC is developing a remediation work plan for submission to DEP and EPA for comment under the TSCA self implementing remediation regulations. The data are also suitable for designing a remedial strategy for compliance with the RSRs.

A sensitive receptor survey is required to confirm that no sensitive receptors exist in the vicinity.

STATEMENT OF LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. These opinions have been arrived at in accordance with currently accepted environmental industry standards and practices applicable to the work described in this report. The opinions presented are subject to the following inherent limitations:

1. This report was prepared for the exclusive use of the entity referenced in Section 1.0. No other entity may rely on the information presented in the report without the expressed written consent of STANTEC. Any use of the Phase I report constitutes acceptance of the limits of STANTEC's liability. STANTEC's labiality extends only to its client and not to any other parties who may obtain the Phase I report.

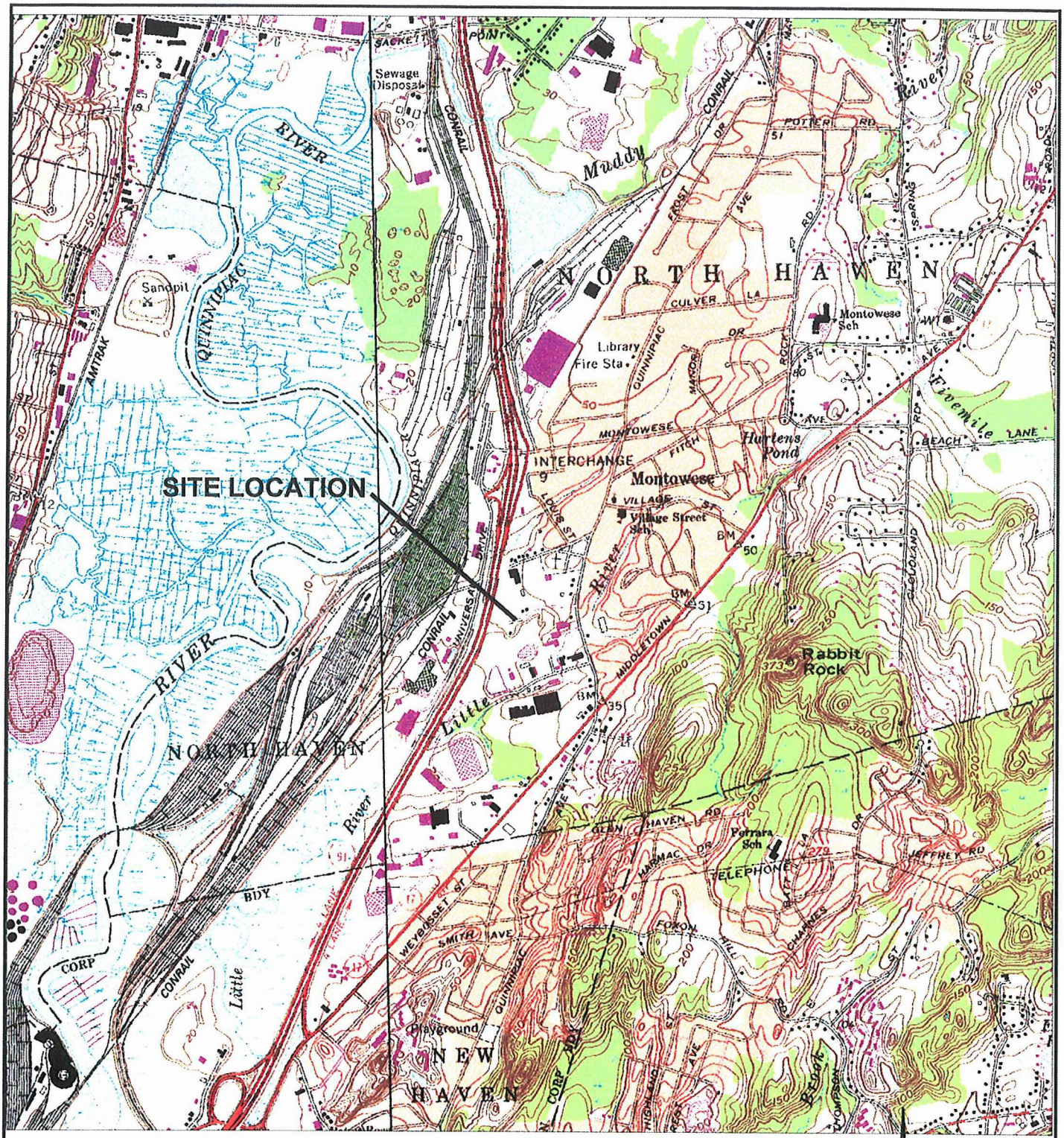
2. STANTEC derived the data in this report primarily from visual inspections, examination of records in the public domain, and interviews with individuals having information about the site. The passage of time, manifestation of latent conditions, or occurrence of future events may require further study at the site, analysis of the data, and reevaluation of the findings, observations, and conclusions in the report.

3. The data reported and the findings, observations, and conclusions expressed in the report are limited by the scope of work. The scope of work is presented in Section 2.0 and was agreed to by the client.

4. STANTEC's PCB AND PETROLEUM IMPACTED SOIL DELINEATION REPORT present professional opinions and findings of a scientific and technical nature. The report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of federal, state, or local governmental agencies.

5. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such. An evaluation of subsurface soil and groundwater conditions was not performed as part of this investigation, unless indicated in Section 2.0. No sampling or chemical analyses of structural materials or other media was completed as part of this study unless explicitly stated in Section 2.0.

6. This report is based, in part, on unverified information supplied to STANTEC by third-party sources. While efforts have been made to substantiate this third-party information, STANTEC cannot guarantee its completeness or accuracy.



SOURCES:
USGS 7.5 MINUTE
TOPOGRAPHIC MAPS–
NEW HAVEN, CT AND
BRANFORD, CT QUADRANGLES

0 2000 4000

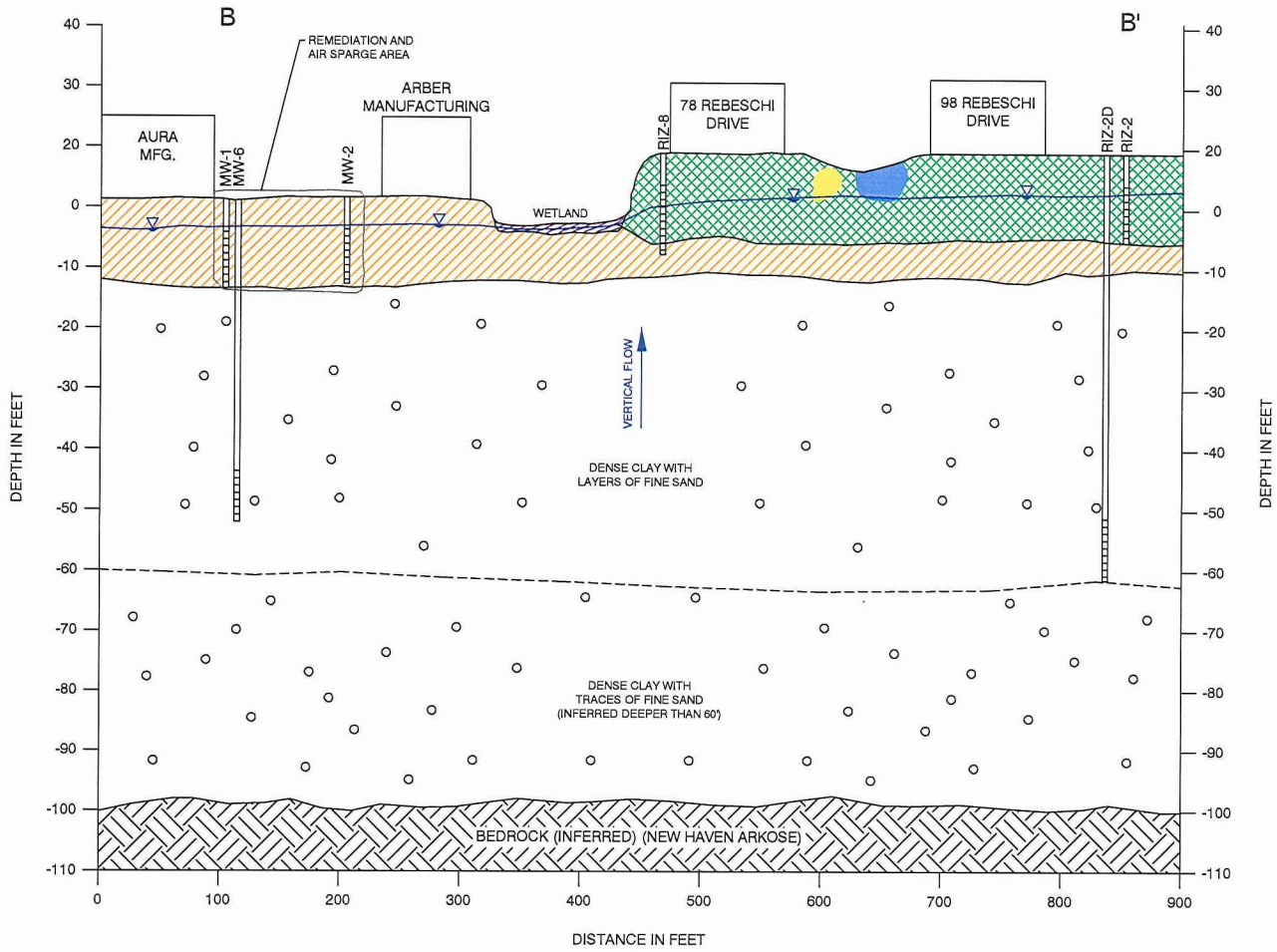
APPROXIMATE SCALE (FEET)

N

SECOR
100 PEARL STREET, 14TH FLOOR
HARTFORD, CONNECTICUT 06103
PHONE (860) 249-7034 FAX (860) 249-7037

PREPARED FOR:				FIGURE:
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		SITE LOCATION MAP		1
JOB NUMBER: 63OT.01297.08.0001	DRAWN BY: KM	CHECKED BY: AT	APPROVED BY: AT	DATE: 02/13/08

63OT-01297-SLM



LEGEND

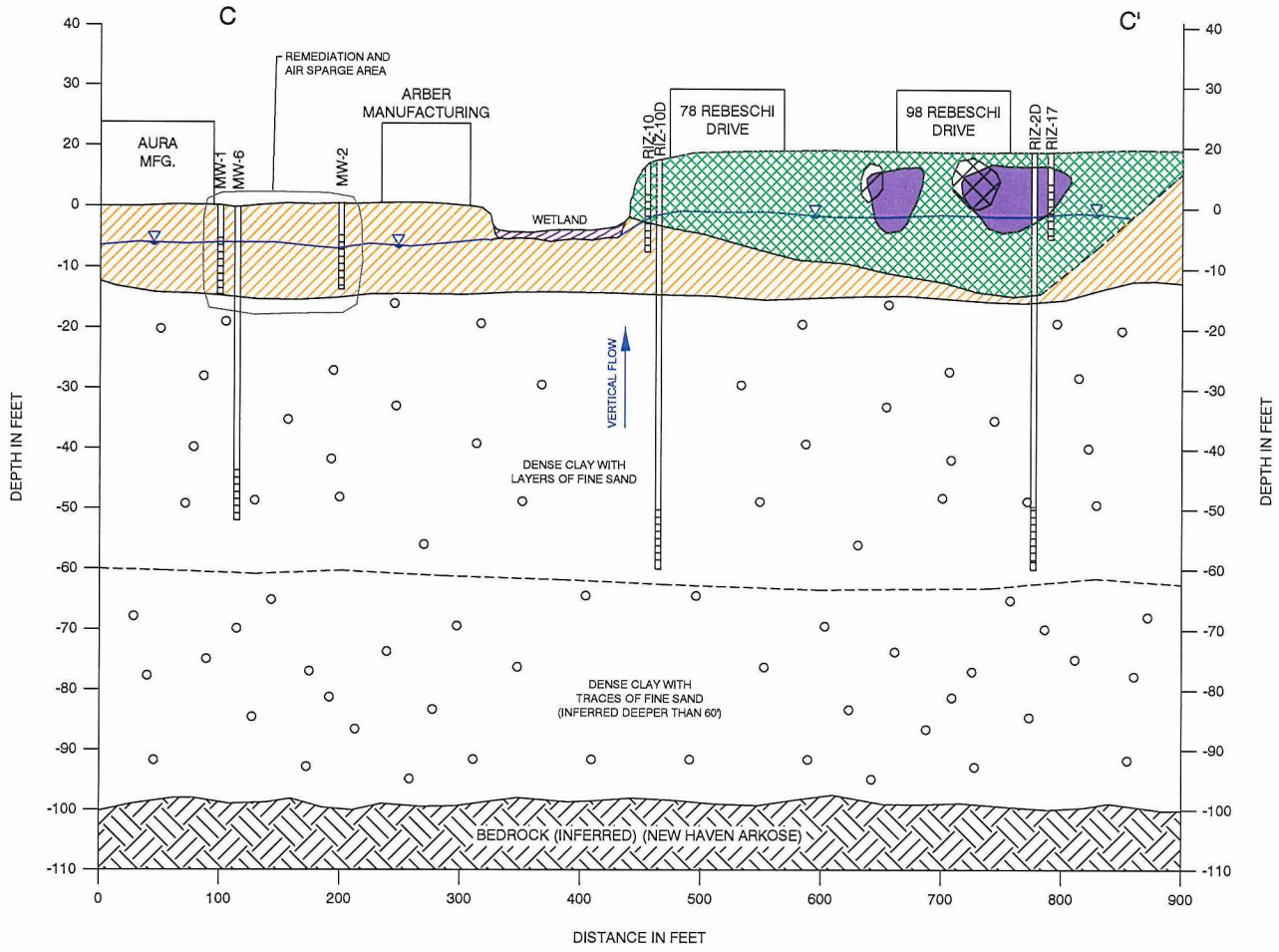
- MUCK (WETLAND)
- SAND, SILT AND GRAVEL WITH BRICK, TRASH AND WOOD (FILL)
- SAND, SILT AND GRAVEL, TRENDING TO CLAY
- ETPH OVER 1C DEC (2,500 mg/kg)
- PCBs OVER 1 mg/kg

Stantec
100 PEARL STREET, 14th FLOOR
HARTFORD, CONNECTICUT
PHONE: (860) 249-7034/249-7037 (FAX)

FOR:		GEOLOGIC CROSS-SECTION B-B'		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				10
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/200

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN, CT

62OT-1143-SECTB-B'.DWG



LEGEND

- MUCK (WETLAND)
- SAND, SILT AND GRAVEL WITH BRICK, TRASH AND WOOD (FILL)
- SAND, SILT AND GRAVEL, TRENDING TO CLAY
- ETPH OVER IC DEC (2,500 mg/kg) AND PCBs OVER 1 mg/kg
- PCBs >10 mg/kg <50 mg/kg
- PCBs OVER <50 mg/kg

Stantec
100 PEARL STREET, 14th FLOOR
HARTFORD, CONNECTICUT
PHONE: (860) 249-7034/249-7037 (FAX)

FOR:
79-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

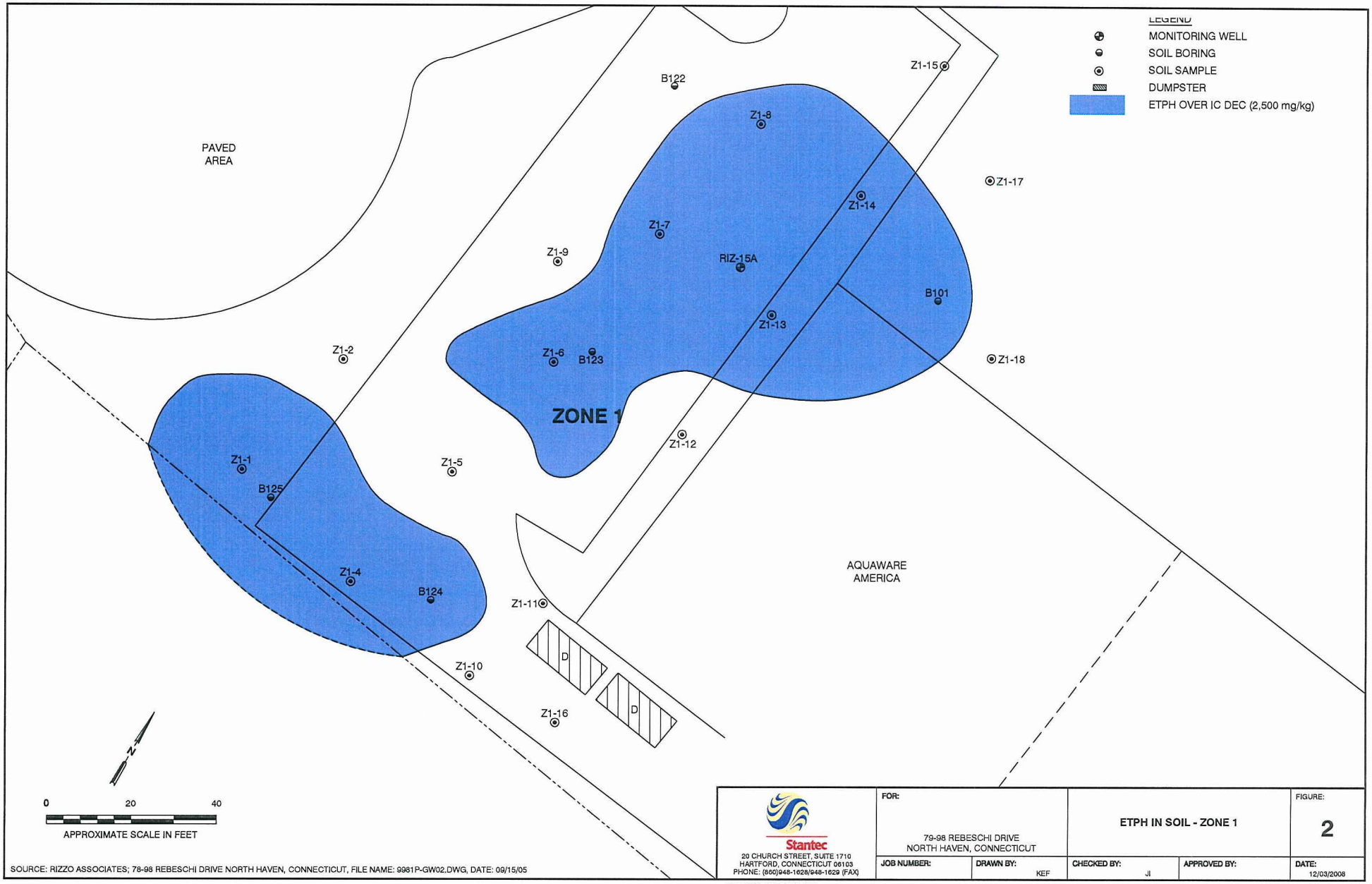
GEOLOGIC CROSS-SECTION C-C'

FIGURE: **11**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	KEF	JI		12/03/2008

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN, CT

62OT-1143-SECTC-C.DWG



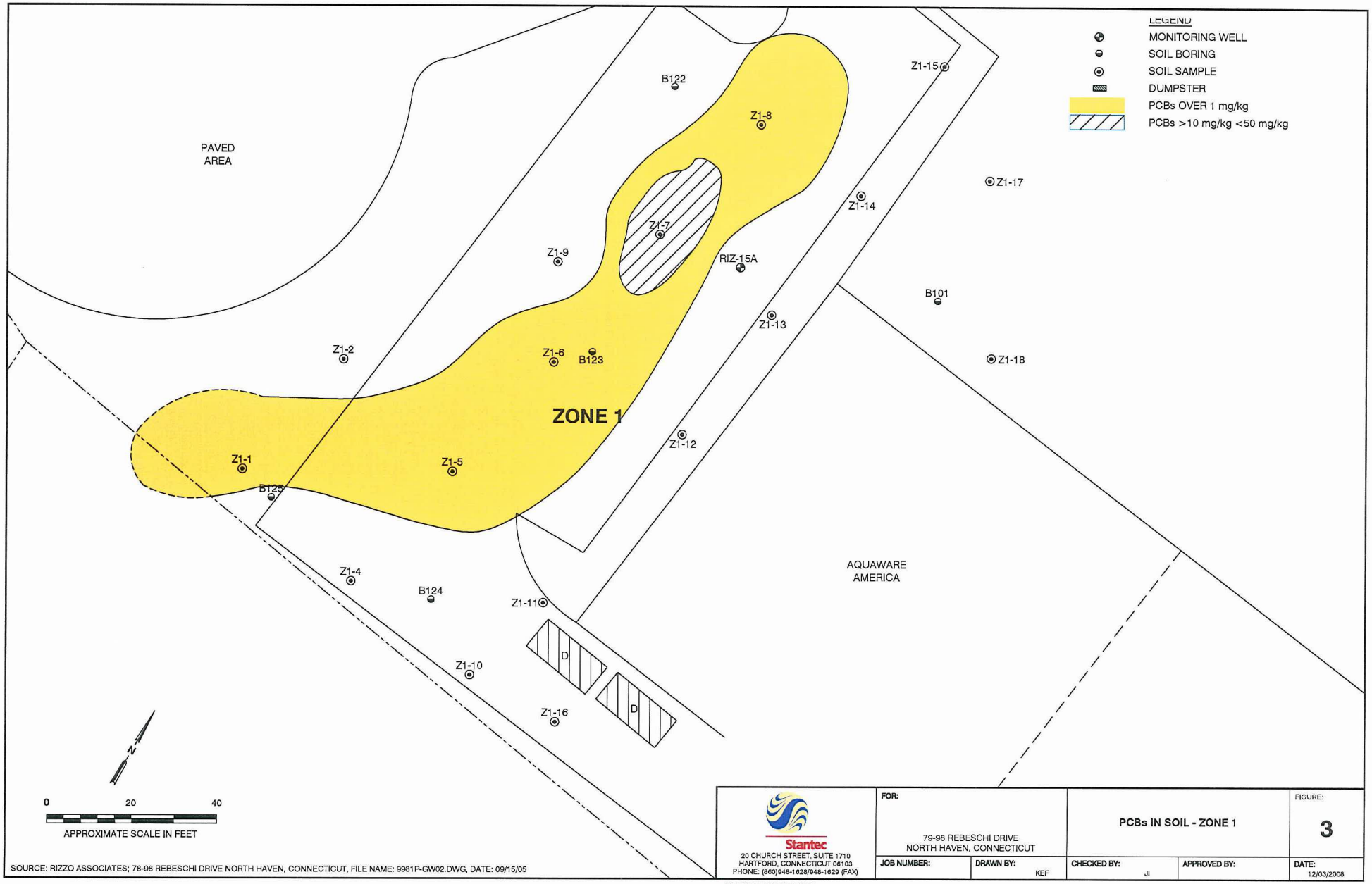
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
29 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		ETPH IN SOIL - ZONE 1		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				2
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

62OT-1143-ZONE1-ETPH.DWG



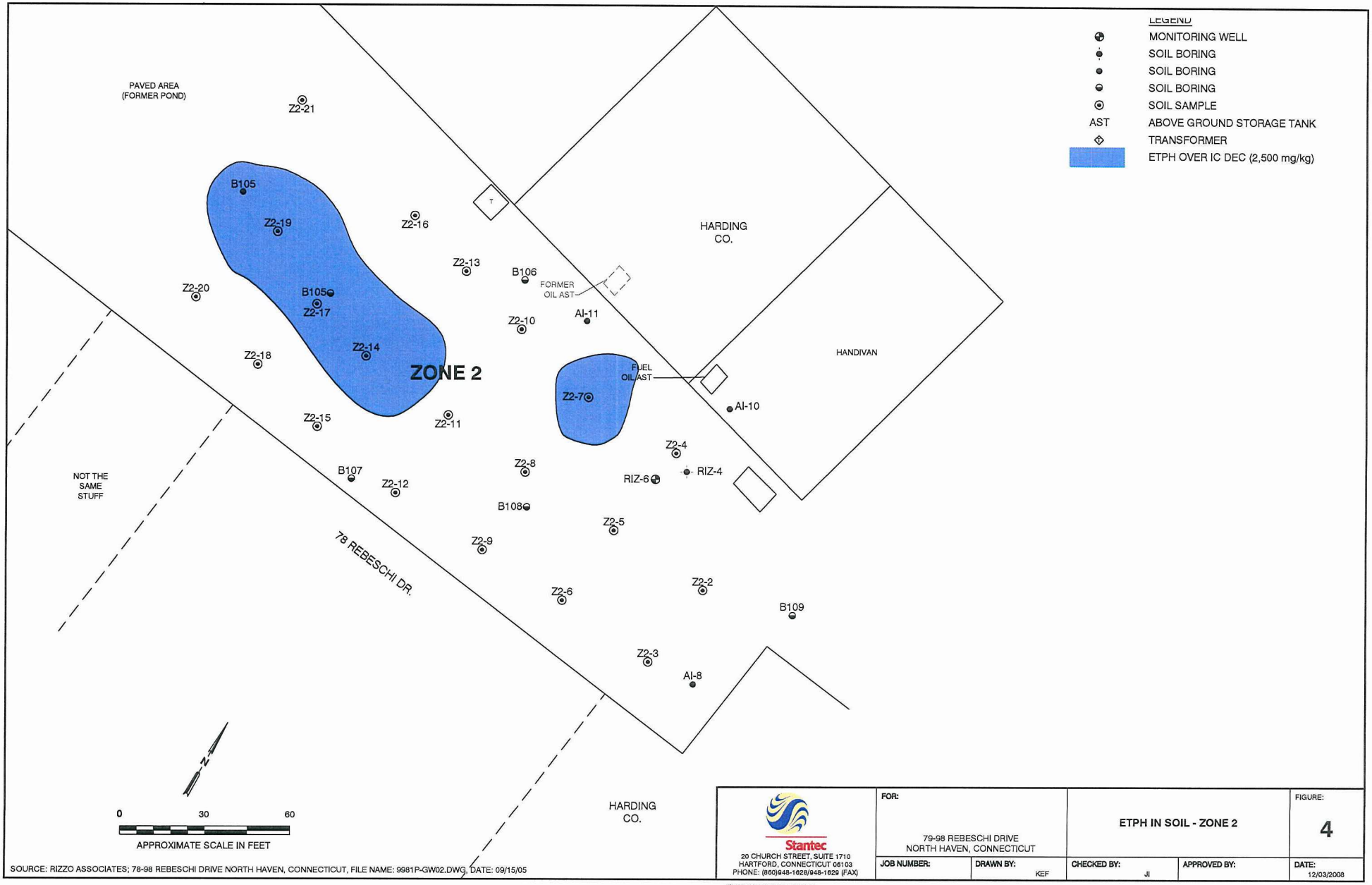
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PCBs IN SOIL - ZONE 1	FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT			3
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

62OT-1143-ZONE1-PCB.DWG

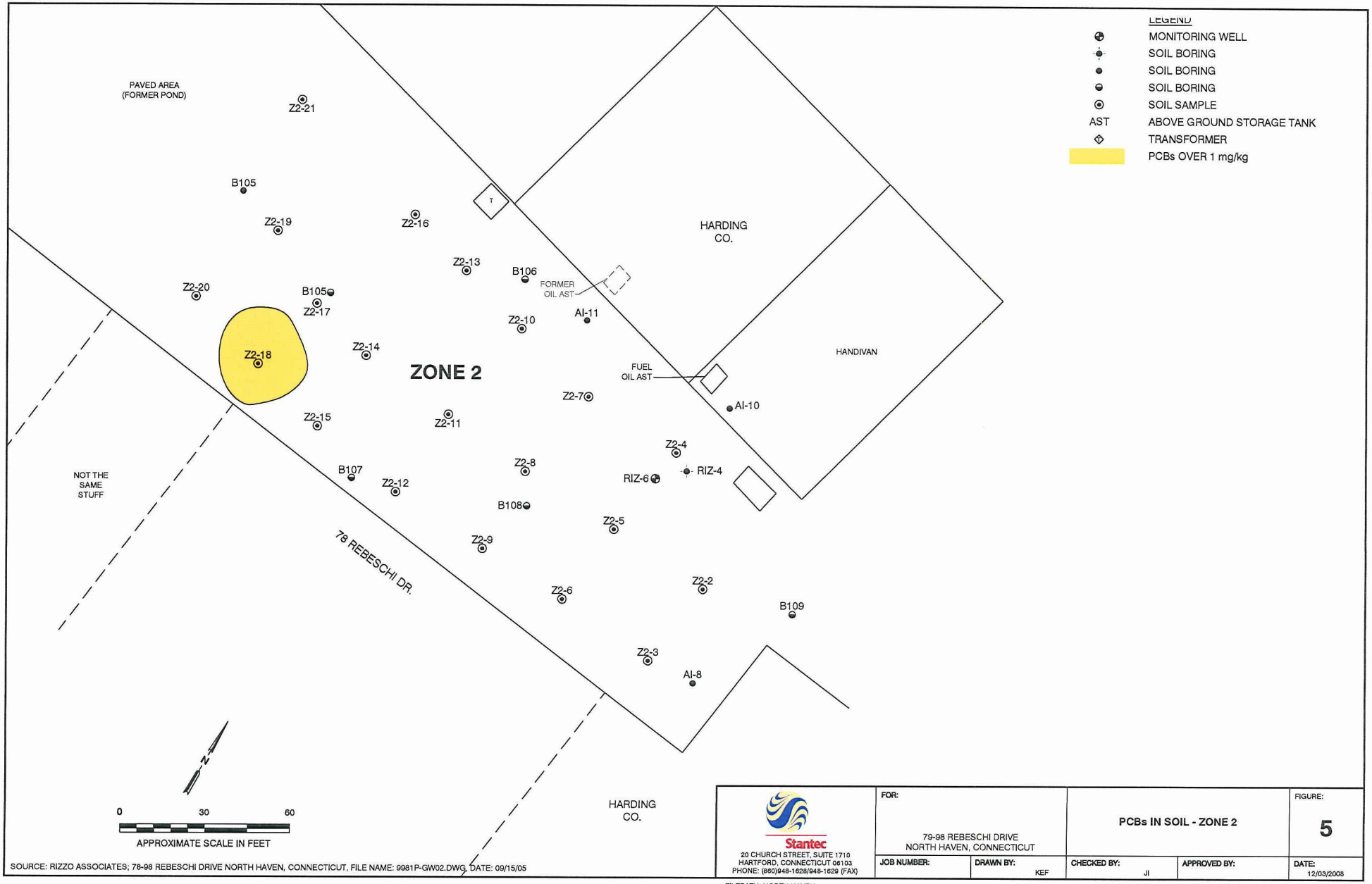


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		ETPH IN SOIL - ZONE 2		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				4
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

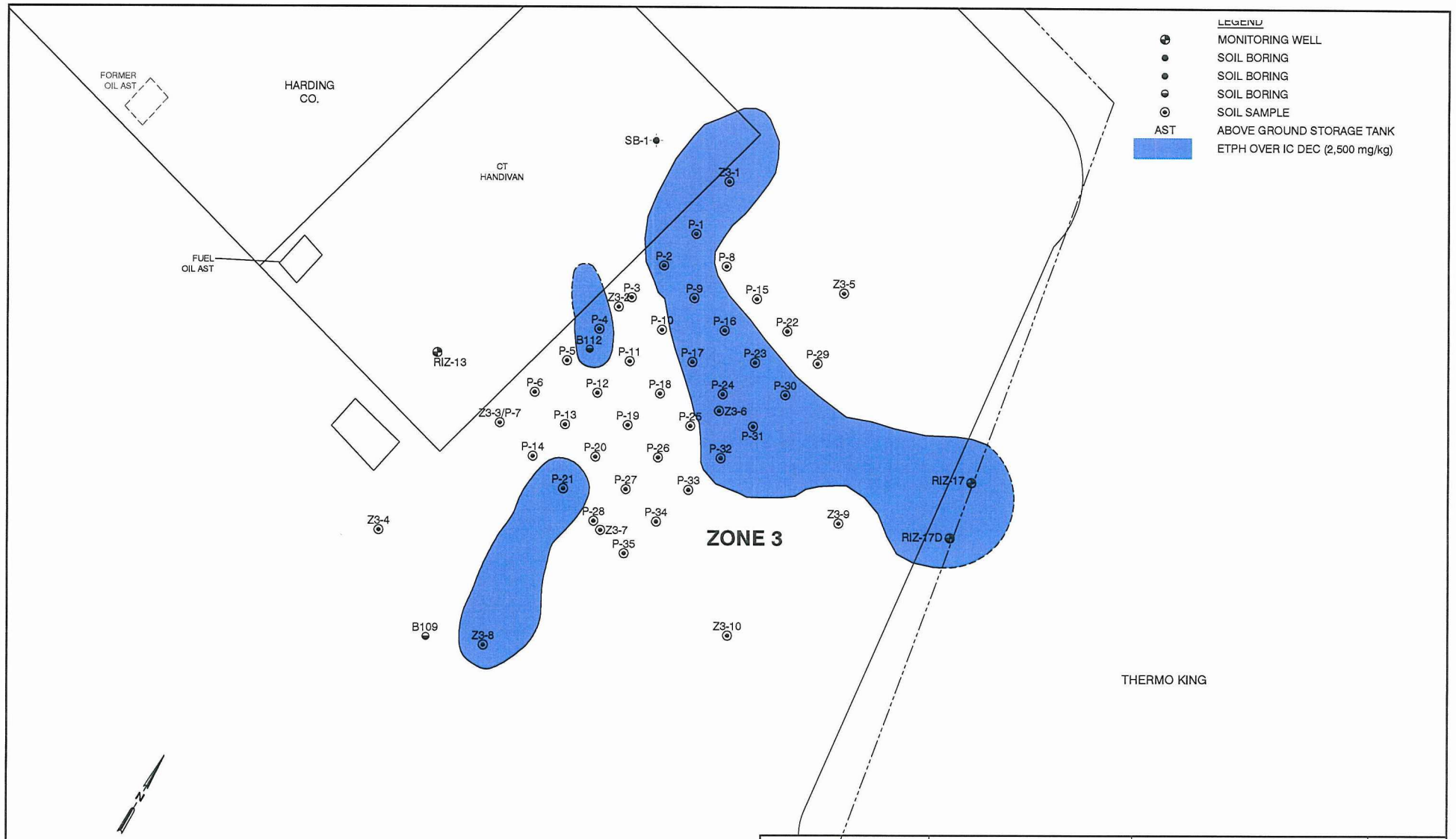


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PCBs IN SOIL - ZONE 2		FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT				5
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

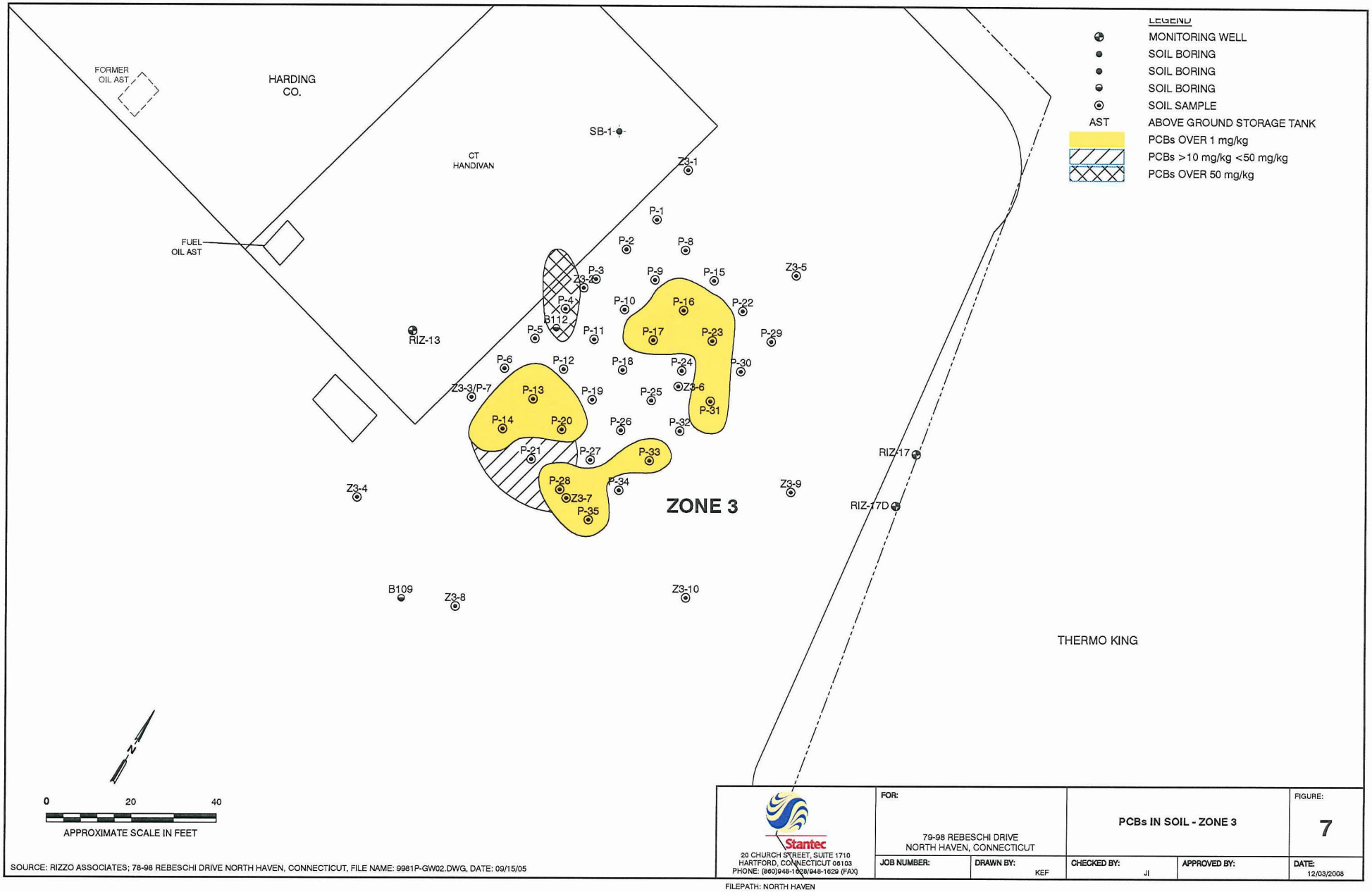


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		ETPH IN SOIL - ZONE 3	FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT			6
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN

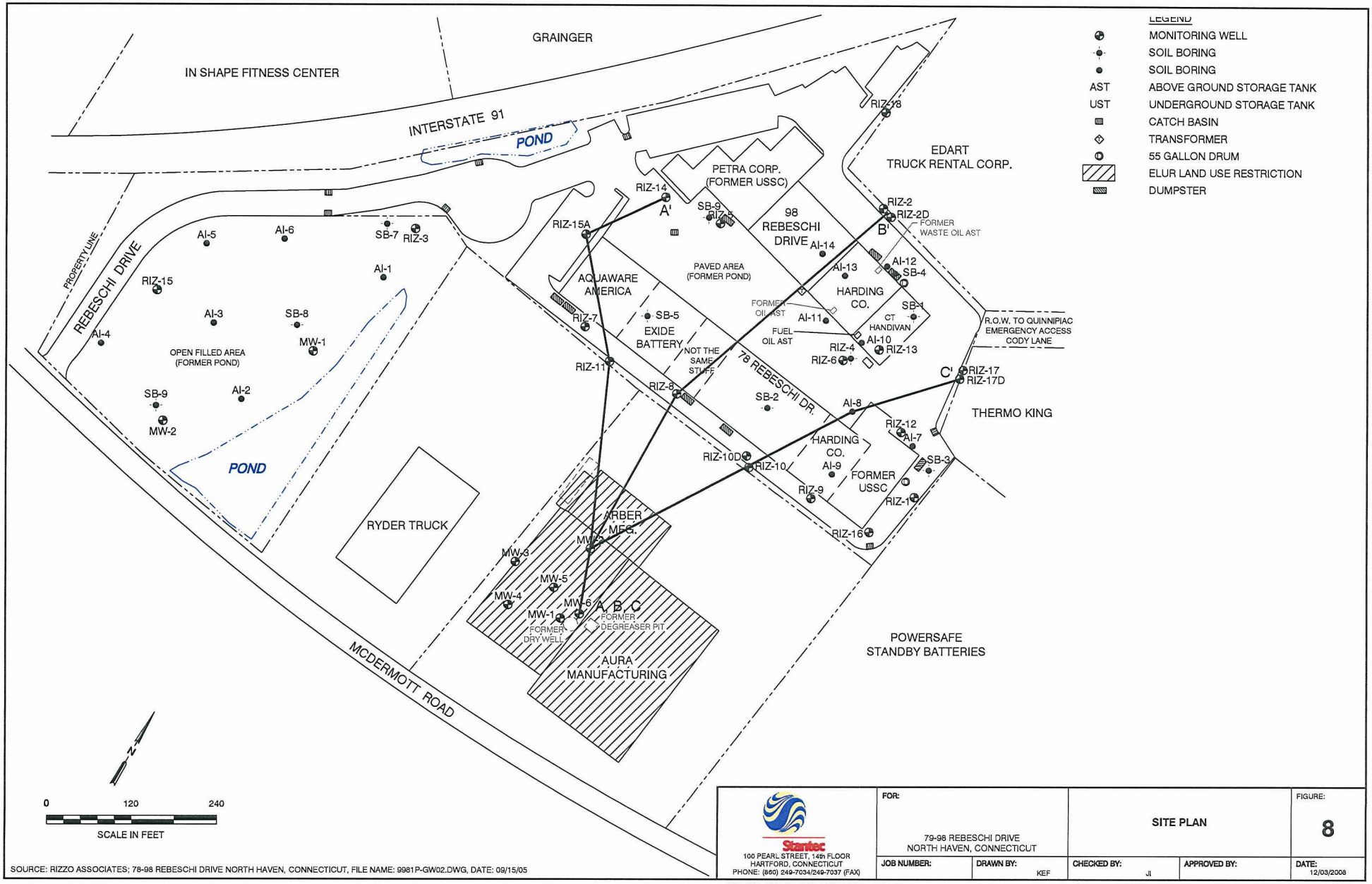


SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
20 CHURCH STREET, SUITE 1710
HARTFORD, CONNECTICUT 06103
PHONE: (860)948-1628/948-1629 (FAX)

FOR:		PCBs IN SOIL - ZONE 3	FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT			7
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY:	DATE: 12/03/2008

FILEPATH: NORTH HAVEN



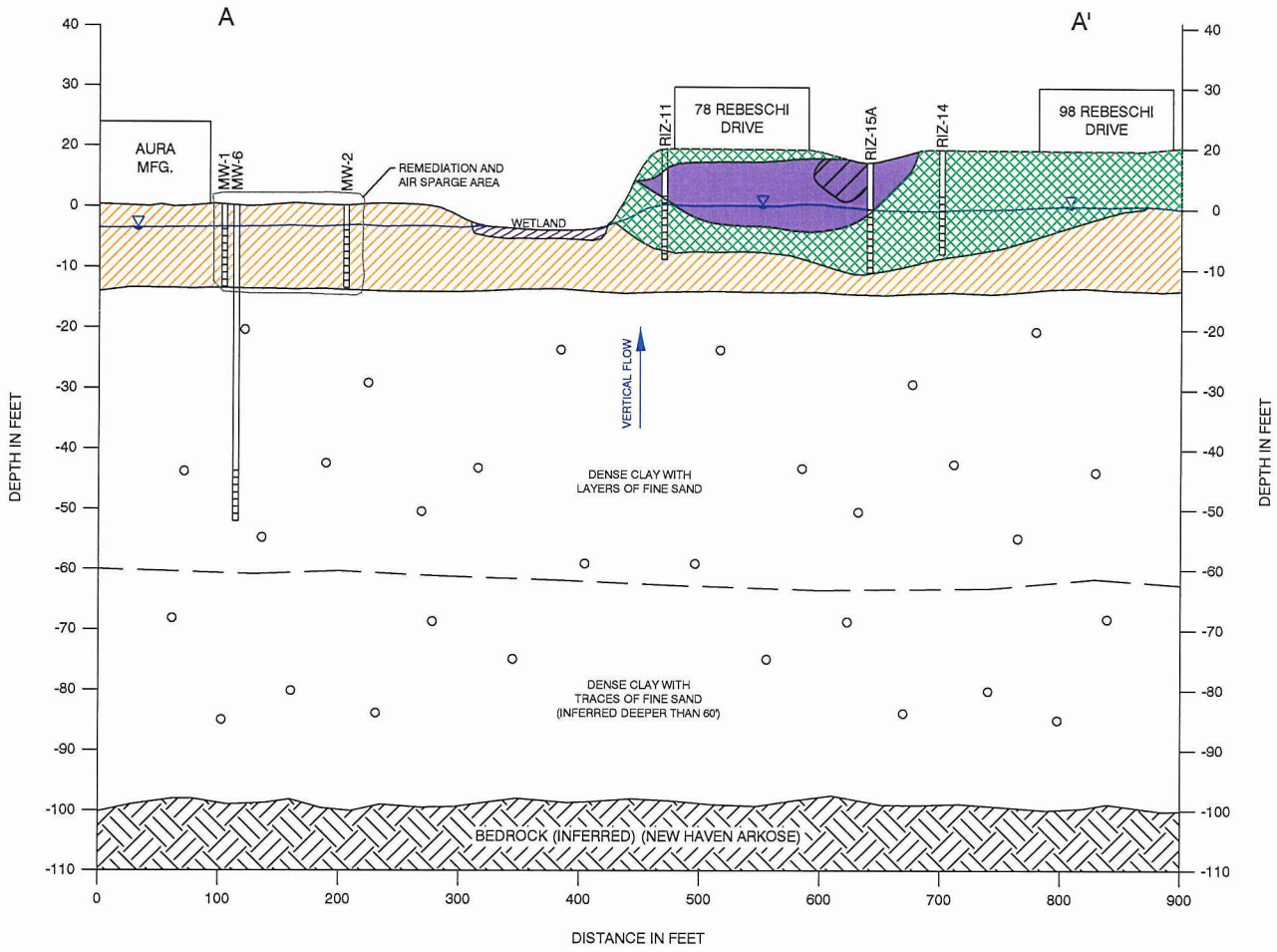
SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

Stantec
100 PEARL STREET, 14th FLOOR
HARTFORD, CONNECTICUT
PHONE: (860) 249-7034/249-7037 (FAX)

FOR:		SITE PLAN	FIGURE:
79-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT			8
JOB NUMBER:	DRAWN BY: KEF	CHECKED BY: JI	APPROVED BY: DATE: 12/03/2008

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN,CT

62OT-1143-SM.DWG



LEGEND

- MUCK (WETLAND)
- SAND, SILT AND GRAVEL WITH BRICK, TRASH AND WOOD (FILL)
- SAND, SILT AND GRAVEL, TRENDING TO CLAY
- ETPH OVER IC DEC (2,500 mg/kg) AND PCBs OVER 1 mg/kg
- PCBs >10 mg/kg <50 mg/kg

Stantec
100 PEARL STREET, 14th FLOOR
HARTFORD, CONNECTICUT
PHONE: (860) 249-7034/249-7037 (FAX)

FOR:
79-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

GEOLOGIC CROSS-SECTION A-A'

FIGURE: 9

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	KEF	JI		12/03/200

FILEPATH: CONNECTICUT OFFICE\REBESCHI DRIVE, NORTH HAVEN, CT

62OT-1143-SECTA-A'.DWG

Table 1
Soil Analytical Results
Site Wide
75-88 Rebeschi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	RES DEC	I/C DEC	GB PMC	B101 (4-6) SA73834-01 1/24/2008 4-6	B133 (5-6) SA73834-02 1/24/2008 5-6	DUP SA73834-03 1/24/2008 5-6	B102 (3-4) SA73834-04 1/24/2008 3-4	B104 (3-4) SA73834-05 1/24/2008 3-4	B105 (3-4) SA73834-06 1/24/2008 3-4	B106 (3-4) SA73834-07 1/24/2008 3-4	B107 (1-2) SA73834-08 1/24/2008 1-2	B107 (5-6.5) SA73834-09 1/24/2008 5-6.5
Total Metals (mg/kg)												
Silver	340	10,000	NE	NA	NA	NA	NA	NA	NA	NA	2	NA
Arsenic	10	10	NE	NA	NA	NA	NA	NA	NA	NA	1.8	NA
Barium	4,700	140,000	NE	NA	NA	NA	NA	NA	NA	NA	18.3	NA
Cadmium	34	1,000	NE	NA	NA	NA	NA	NA	NA	NA	<0.529	NA
Chromium	100^	100^	NE	NA	NA	NA	NA	NA	NA	NA	2.08	NA
Mercury	20	610	NE	NA	NA	NA	NA	NA	NA	NA	<0.023	NA
Lead	400	1,000	NE	NA	NA	NA	NA	NA	NA	NA	2.23	NA
Selenium	340	10,000	NE	NA	NA	NA	NA	NA	NA	NA	<1.59	NA
SVOC (ug/kg)												
Acenaphthene	1,000,000	2,500,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	1,000,000	2,500,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,000,000	2,500,000	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1,000	7,800	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1,000	7,800	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	1,000,000	2,500,000	42,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	8,400	78,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84,000	780,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000,000	2,500,000	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	1,000,000	2,500,000	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1,000	7,800	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	474,000	2,500,000	9,800	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	1,000,000	2,500,000	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000,000	2,500,000	40,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000,000	2,500,000	40,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)												
PCB	1	10	NE	0	2	0	<0.0258	<0.0303	<0.023	<0.0308	NA	<0.0322
Extractable Total Petroleum												
CT ETPH	500	2,500	2,500	1,832	189	77	<25.5	<25.2	4,883	<25.8	NA	1,339

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	B108 (6-6.5) SA73834-09 1/24/2008 6-6.5	B108 (6-7) SA73834-12 1/24/2008 6-7	B109 (8-9) SA73834-33 1/24/2008 8-9	B110 (6-7) SA73834-10 1/24/2008 6-7	B111 (6-7) SA73834-11 1/24/2008 6-7	B112 (6-7) SA73834-13 1/24/2008 6-7	B112 (8-9) SA73834-21 1/24/2008 8-9	B113 (3-4) SA73834-14 1/24/2008 8-9	B114 (3-4) SA73834-16 1/24/2008 8-9	B115 (3-4) SA73834-15 1/24/2008 8-9	B116 (6.5-7.5) SA73834-17 1/24/2008 6.5-7.5	B117 (8-9) SA73834-18 1/24/2008 8-9	B118 (8-9) SA73834-22 1/25/2008 8-9	B119 (4.5-5) SA73834-21 1/25/2008 4.5-5
Total Metals (mg/kg)														
Silver	<1.43	NA	NA	NA	NA	NA	<1.54	NA	3.51	NA	NA	NA	NA	<1.42
Arsenic	3.58	NA	NA	NA	NA	NA	2.88	NA	<1.53	NA	NA	NA	NA	<1.42
Barium	60.1	NA	NA	NA	NA	NA	88.3	NA	22.9	NA	NA	NA	NA	77.3
Cadmium	<0.484	NA	NA	NA	NA	NA	0.711	NA	<0.51	NA	NA	NA	NA	<0.473
Chromium	8.88	NA	NA	NA	NA	NA	20.8	NA	1.44	NA	NA	NA	NA	13.3
Mercury	0.0748	NA	NA	NA	NA	NA	0.135	NA	<0.0228	NA	NA	NA	NA	<0.0203
Lead	30.4	NA	NA	NA	NA	NA	310	NA	2.5	NA	NA	NA	NA	7.33
Selenium	<1.43	NA	NA	NA	NA	NA	<1.54	NA	<1.53	NA	NA	NA	NA	<1.42
SVOC (ug/kg)														
Acenaphthene	2,300	NA	NA	NA	NA	NA	7,843	NA	<147	NA	NA	NA	NA	<148
Acenaphthylene	<301	NA	NA	NA	NA	NA	1,343	NA	<147	NA	NA	NA	NA	<148
Anthracene	4,530	NA	NA	NA	NA	NA	15,200	NA	<147	NA	NA	NA	NA	<148
Benzo (a) anthracene	8,365	NA	NA	NA	NA	NA	18,288	NA	<147	NA	NA	NA	NA	<148
Benzo (a) pyrene	7,288	NA	NA	NA	NA	NA	14,889	NA	<147	NA	NA	NA	NA	<149
Benzo (b) fluoranthene	6,083	NA	NA	NA	NA	NA	11,588	NA	<147	NA	NA	NA	NA	<148
Benzo (g,h,i) perylene	4,910	NA	NA	NA	NA	NA	8,358	NA	<147	NA	NA	NA	NA	<149
Benzo (k) fluoranthene	5,359	NA	NA	NA	NA	NA	17,488	NA	<147	NA	NA	NA	NA	<148
Chrysene	7,989	NA	NA	NA	NA	NA	18,388	NA	<147	NA	NA	NA	NA	<148
Dibenzo (a,h) anthracene	1,418	NA	NA	NA	NA	NA	3,098	NA	<147	NA	NA	NA	NA	<148
Fluoranthene	16,800	NA	NA	NA	NA	NA	40,188	NA	<147	NA	NA	NA	NA	<148
Fluorene	3,300	NA	NA	NA	NA	NA	18,388	NA	<147	NA	NA	NA	NA	<148
Indeno (1,2,3-cd) pyrene	6,378	NA	NA	NA	NA	NA	8,758	NA	<147	NA	NA	NA	NA	<148
1-Methylnaphthalene	743	NA	NA	NA	NA	NA	4,633	NA	<147	NA	NA	NA	NA	<148
2-Methylnaphthalene	583	NA	NA	NA	NA	NA	1,878	NA	<147	NA	NA	NA	NA	<148
Naphthalene	1,500	NA	NA	NA	NA	NA	1,323	NA	<147	NA	NA	NA	NA	<148
Phenanthrene	22,808	NA	NA	NA	NA	NA	43,083	NA	<147	NA	NA	NA	NA	<148
Pyrene	29,808	NA	NA	NA	NA	NA	27,188	NA	<147	NA	NA	NA	NA	<148
PCBs (mg/kg)														
PCB	<0.0318	<0.0311	<0.0328	<0.0312	<0.0318	<0.0304	33	<0.0308	<0.0313	<0.0308	<0.0318	<0.0301	<0.0303	<0.0309
Extractable Total Petroleum														
CT ETPH	579	673	1,243	<23.3	<30.3	79	18,382	<23.9	<23.4	<26.9	<33.3	<28.8	<25	<29.8

Notes:
ug/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - Not Established
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
GB PMC - Class GB Pollutant Mobility Criteria
Bold indicate an exceedance of one or more criteria.

Table 1
Soil Analytical Results
Site Wide
75-85 Rabestchi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	RES DEC	I/C DEC	GB PMC	B120 (5-6) SA73824-22 1/25/2008 5-6	B121 (5-6.5) SA73824-23 1/25/2008 5-6.5	B122 (5-6) SA73824-24 1/24/2008 5-6	B123 (7-8) SA73824-32 1/25/2008 7-8	B133 (4.5-6.5) SA73824-28 1/25/2008 4.5-6.5	B134 (10-11) SA73824-25 1/25/2008 10-11	B134 (6-7) SA73824-26 1/25/2008 6-7	B125 (4-4.5) SA73824-27 1/25/2008 4-4.5	B128 (7-8) SA73824-34 1/25/2008 7-8
Total Metals (mg/kg)												
Silver	340	10,000	NE	<1.44	NA	NA	NA	NA	NA	NA	NA	<1.15
Arsenic	10	10	NE	<1.44	NA	NA	NA	NA	NA	NA	NA	4.76
Barium	4,700	140,000	NE	86.9	NA	NA	NA	NA	NA	NA	NA	63.8
Cadmium	34	1,000	NE	<0.179	NA	NA	NA	NA	NA	NA	NA	<0.318
Chromium	100*	100*	NE	17.7	NA	NA	NA	NA	NA	NA	NA	10.6
Mercury	20	610	NE	<0.0297	NA	NA	NA	NA	NA	NA	NA	<0.234
Lead	400	1,000	NE	12.1	NA	NA	NA	NA	NA	NA	NA	78.9
Selenium	340	10,000	NE	<1.44	NA	NA	NA	NA	NA	NA	NA	<1.53
SVOC (µg/kg)												
Acenaphthene	1,000,000	2,500,000	84,000	<298	NA	NA	NA	NA	NA	NA	NA	3,300
Acenaphthylene	1,000,000	2,500,000	84,000	<298	NA	NA	NA	NA	NA	NA	NA	4,770
Anthracene	1,000,000	2,500,000	400,000	<298	NA	NA	NA	NA	NA	NA	NA	8,720
Benzo (a) anthracene	1,000	7,800	1,000	<298	NA	NA	NA	NA	NA	NA	NA	9,890
Benzo (a) pyrene	1,000	1,000	1,000	<298	NA	NA	NA	NA	NA	NA	NA	7,080
Benzo (b) fluoranthene	1,000	7,800	1,000	<298	NA	NA	NA	NA	NA	NA	NA	9,960
Benzo (g,h,i) perylene	1,000,000	2,500,000	41,000	<298	NA	NA	NA	NA	NA	NA	NA	4,440
Benzo (k) fluoranthene	8,400	78,000	1,000	<298	NA	NA	NA	NA	NA	NA	NA	9,130
Chrysene	84,000	780,000	1,000	<298	NA	NA	NA	NA	NA	NA	NA	8,130
Dibenzo (a,h) anthracene	1,000	1,000	1,000	<298	NA	NA	NA	NA	NA	NA	NA	1,350
Fluoranthene	1,000,000	2,500,000	56,000	<298	NA	NA	NA	NA	NA	NA	NA	24,300
Fluorene	1,000,000	2,500,000	56,000	<298	NA	NA	NA	NA	NA	NA	NA	11,800
Indeno (1,2,3-cd) pyrene	1,000	7,800	1,000	<298	NA	NA	NA	NA	NA	NA	NA	4,300
1-Methylnaphthalene	NE	NE	NE	<298	NA	NA	NA	NA	NA	NA	NA	7,130
2-Methylnaphthalene	474,000	2,500,000	9,800	<298	NA	NA	NA	NA	NA	NA	NA	7,400
Naphthalene	1,000,000	2,500,000	56,000	<298	NA	NA	NA	NA	NA	NA	NA	13,200
Phenanthrene	1,000,000	2,500,000	40,000	<298	NA	NA	NA	NA	NA	NA	NA	33,500
Pyrene	1,000,000	2,500,000	40,000	<298	NA	NA	NA	NA	NA	NA	NA	19,200
PCBs (mg/kg)												
PCB	1	10	NE	<0.0315	<0.0323	<0.0298	<0.0333	<0.0305	<0.0372	<0.0332	<0.0329	<0.0343
Extractable Total Petroleum Hydrocarbons												
CT ETPH	500	2,500	2,500	251	177	209	<33.2	18,300	433	4,130	343	1,330

Notes:
µg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
GB PMC - Class GB Pollutant Mobility Criteria
Bold indicate an exceedance of one or more criteria.

Table 2
Zone 1
Soil Analytical Results
79-85 Rebeschi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	I/C DEC	Z1-1 (5-6) SA85327-30 5/29/2008 5-6	Z1-1 (11-12) SA85327-34 5/29/2008 11-12	Z1-2 (5-6) SA85327-35 5/29/2008 5-6	Z1-2 (11-12) SA85327-29 5/29/2008 11-12	Z1-4 (7-8) SA84823-01 5/15/2008 7-8	Z1-4 (12-13) SA84823-02 5/15/2008 12-13	Z1-5 (7-8) SA84823-03 5/15/2008 7-8	Z1-5 (10-11) SA84823-04 5/15/2008 10-11	Z1-6 (6-7) SA84823-05 5/15/2008 6-7	Z1-6 (10-11) SA84823-06 5/15/2008 10-11
SVOC (ug/kg)													
Acenaphthene	84	1,000	2,500	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	<0.426
Anthracene	400	1,000	2,500	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	0.442
Benzo (a) anthracene	1	1	7.8	NA	<11.1	NA	NA	<438	317	12.8	<1.84	3.9	1.39
Benzo (a) pyrene	1	1	1	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	2.29	1.18
Benzo (b) fluoranthene	1	1	7.8	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	2.48	1.21
Benzo (g,h,i) perylene	42	1,000	2,500	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	0.939
Benzo (k) fluoranthene	1	8.4	78	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	3.060
bis(2-ethylhexyl)phthalate	11	44	410	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	<0.426
Chrysene	1	84	780	NA	<11.1	NA	NA	<438	<236	11.4	<1.84	5.82	1.17
Dibenzofuran	1	31	213	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	<0.426
Di-n-octyl phthalate	20	1,000	2,500	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	<0.426
Fluoranthene	56	1,000	2,500	NA	<11.1	NA	NA	1,040	921	28.9	3	7.19	2.50
Fluorene	56	1,000	2,500	NA	<11.1	NA	NA	731	318	<9.74	<1.84	<2.04	0.466
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	<11.1	NA	NA	<438	<236	<9.74	<1.84	<2.04	0.431
1-Methylnaphthalene	9.8	474	2,500	NA	<11.1	NA	NA	787	417	<9.74	<1.84	<2.04	<0.426
2-Methylnaphthalene	9.8	474	2,500	NA	<11.1	NA	NA	1,250	665	<9.74	<1.84	<2.04	<0.426
Naphthalene	56	1,000	2,500	NA	<11.1	NA	NA	4,830	2,330	<9.74	4.03	2.31	<0.426
Phenanthrene	40	1,000	2,500	NA	<11.1	NA	NA	3,310	1,330	30.5	5.73	8.19	2.00
Pyrene	40	1,000	2,500	NA	<11.1	NA	NA	897	815	27.8	3.64	9.31	3.56
PCBs (mg/kg)													
PCB 1016	NA	NE	NE	<0.0067	<0.0588	<0.0685	<0.0623	<0.0201	<0.0232	0.189	0.163	0.272	<0.0215
PCB 1221	NA	NE	NE	<0.0067	<0.0588	<0.0685	<0.0623	<0.0201	<0.0232	<0.0229	<0.0215	<0.0248	<0.0215
PCB 1232	NA	NE	NE	<0.0067	<0.0588	<0.0685	<0.0623	<0.0201	<0.0232	<0.0229	<0.0215	<0.0249	<0.0215
PCB 1242	NA	NE	NE	<0.0067	<0.0588	<0.0685	<0.0623	<0.0201	<0.0232	<0.0229	<0.0215	<0.0248	<0.0215
PCB 1248	NA	NE	NE	<0.0067	<0.0588	<0.0685	<0.0623	<0.0201	<0.0232	<0.0229	<0.0215	<0.0249	<0.0215
PCB 1254	NA	NE	NE	0.115	<0.0588	<0.0685	0.159	<0.0201	<0.0232	0.705	0.541	1.37	0.273
PCB 1260	NA	NE	NE	<0.0067	<0.0588	<0.0685	0.0744	<0.0201	<0.0232	0.765	0.722	2.71	0.27
PCB 1262	NA	NE	NE	1.4	<0.0588	0.153	<0.0623	<0.0201	<0.0232	<0.0229	<0.0215	<0.0249	<0.0215
PCB 1268	NA	NE	NE	<0.0067	<0.0588	<0.0685	<0.0623	<0.0201	<0.0232	<0.0229	<0.0215	<0.0249	<0.0215
Total PCBs	NA	1	10	1.515	<0.0588	0.153	0.2334	<0.0201	<0.0232	1.659	1.426	4.353	0.543
Extractable Total Petroleum													
CT ETPH	2,500	500	2,500	714	3,390	727	938	37,849	22,800	974	429	883	223

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	Z1-7 (7-8) SA84823-07 5/15/2008 7-8	Z1-7 (12-13) SA84823-09 5/15/2008 12-13	Z1-8 (11-12) SA85327-23 5/29/2008 11-12	Z1-8 (5-6) SA85327-31 5/29/2008 5-6	Z1-9 (11-12) SA85327-22 5/29/2008 11-12	Z1-10 (2.5-3.5) SA84823-12 5/15/2008 2.5-3.5	Z1-10 (11-12) SA84823-13 5/15/2008 11-12	Z1-11 (11-12) SA84823-14 5/15/2008 11-12	Z1-11 (7-8) SA84823-15 5/15/2008 7-8	Z1-12 (2-3) SA85327-28 5/29/2008 2-3
SVOC (ug/kg)										
Acenaphthene	<74.3	2.73	<56.7	88.5	6.61	<0.382	<0.378	NA	NA	NA
Anthracene	<74.3	3.73	94.3	58.8	5.6	<0.382	<0.378	NA	NA	NA
Benzo (a) anthracene	<74.3	6.71	<56.7	<50	2.44	<0.382	<0.378	NA	NA	NA
Benzo (a) pyrene	<74.3	3.71	<56.7	<50	4.38	<0.382	<0.378	NA	NA	NA
Benzo (b) fluoranthene	<74.3	3.83	<56.7	<50	4.25	<0.382	<0.378	NA	NA	NA
Benzo (g,h,i) perylene	<74.3	<1.91	<56.7	<50	3.24	<0.382	<0.378	NA	NA	NA
Benzo (k) fluoranthene	<74.3	1.9	<56.7	<50	3	<0.382	<0.378	NA	NA	NA
bis(2-ethylhexyl)phthalate	440	<1.91	<56.7	<50	<3	<0.382	<0.378	NA	NA	NA
Chrysene	<74.3	4.69	<56.7	<50	6.51	<0.382	<0.378	NA	NA	NA
Dibenzofuran	<74.3	1.56	<56.7	60.4	<3	<0.382	<0.378	NA	NA	NA
Di-n-octyl phthalate	78.3	<1.91	<56.7	<50	<3	<0.382	<0.378	NA	NA	NA
Fluoranthene	<74.3	11.4	145	132	15.5	<0.382	<0.378	NA	NA	NA
Fluorene	<74.3	2.23	192	128	9.41	<0.382	<0.378	NA	NA	NA
Indeno (1,2,3-cd) pyrene	<74.3	<1.91	<56.7	<50	3.47	<0.382	<0.378	NA	NA	NA
1-Methylnaphthalene	<74.3	<1.91	73.1	93.4	8.44	<0.382	<0.378	NA	NA	NA
2-Methylnaphthalene	<74.3	<1.91	117	130	13.1	<0.382	<0.378	NA	NA	NA
Naphthalene	<74.3	1.97	128	349	17.4	<0.382	<0.378	NA	NA	NA
Phenanthrene	<74.3	10.5	269	363	21.8	<0.382	<0.378	NA	NA	NA
Pyrene	<74.3	12.9	129	109	12.3	<0.382	<0.378	NA	NA	NA
PCBs (mg/kg)										
PCB 1016	<0.021	0.0583	<0.0857	<0.0739	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1221	<0.021	<0.0229	<0.0857	<0.0739	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1232	<0.021	<0.0229	<0.0857	<0.0739	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1242	<0.021	<0.0229	<0.0857	<0.0739	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1248	<0.021	<0.0229	<0.0857	<0.0739	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1254	30.9	0.603	1.29	0.303	0.229	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1260	2.01	0.175	<0.0857	0.272	0.0729	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1262	<0.021	<0.0229	<0.0857	<0.0738	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
PCB 1268	<0.021	<0.0229	<0.0857	<0.0739	<0.0646	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
Total PCBs	32.91	0.8363	1.29	0.575	0.3019	<0.0233	<0.0214	<0.0223	<0.0214	<0.0673
Extractable Total Petroleum										
CT ETPH	3,188	190	3,533	1,929	912	27.4	<15.2	42.4	331	<29.9

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
*Criteria is for hexavalent chromium
DUP is a duplicate sample collected from D1C2 (5-6)

Table 2
Zone 1
Soil Analytical Results
75-85 Rebecca Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	IC DEC	Z1-12 (3-4) SA85337-27 9/29/2008 3-4	Z1-13 (3-4) SA85337-29 9/29/2008 3-4	Z1-14 (6-7) SA85337-32 9/29/2008 6-7	Z1-15 (7-8) SA85337-31 9/29/2008 7-8	Z1-17 (6-7) SA85337-28 9/29/2008 6-7	Z1-17 (10-11) SA84828-13 9/18/2008 10-11	Z1-17 (12.5-13.5) SA84828-11 9/18/2008 12.5-13.5	Z1-18 (8-9) SA85337-18 9/29/2008 8-9	Z1-18 (11-12) SA85337-19 9/29/2008 11-12	Z1-DUP-1 SA84828-85 9/18/2008 NA	Z1-DUP 2 SA85337-34 9/29/2008 NA	Z1-DUP 3 SA85337-33 9/29/2008 NA
SVOC (mg/kg)															
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	121
Anthracene	400	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	68.5	112
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
Bis(2-ethylhexyl)phthalate	11	44	410	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	338	<51.4	<52.5
Chrysene	1	84	780	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
Dibenzofuran	1	37	290	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	83.1	119
Di-n-octyl phthalate	20	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.6	<52.5
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	142	188
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	66.6	172
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	<51.4	<52.5
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	88.9	129
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	136	291
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	393	311
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	271	337
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	<0.368	<0.372	NA	NA	<76.3	117	133
PCBs (mg/kg)															
PCB 1016	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
PCB 1221	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
PCB 1232	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
PCB 1242	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
PCB 1248	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
PCB 1254	NA	NE	NE	<0.0633	<0.0634	0.1	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	35.2	0.903	0.369
PCB 1260	NA	NE	NE	<0.0633	<0.0634	0.0809	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	3.16	0.153	0.237
PCB 1262	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
PCB 1268	NA	NE	NE	<0.0633	<0.0634	<0.0747	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	<0.229	<0.079	<0.0787
Total PCBs	NA	1	10	<0.0633	<0.0634	0.1809	<0.0693	<0.0684	<0.0219	<0.0221	<0.0724	<0.0637	41.36	1.036	0.606
Extractable Total Petroleum															
CT ETPH	2,500	500	2,500	73.3	3,310	1,940	<31.5	<21.3	37.8	32.2	307	<28.8	2,790	2,940	4,370

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
Bold indicates an exceedance of one or more criteria.
*Criteria is for hexavalent chromium
DUP is a duplicate sample collected from B102 (3-4)

Table 3
Zone 3
Additional Characterization Soil Analytical Results
75-83 Rebecchi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	I/C DEC	Z3-3 (8-9) SA83119-01 9/24/2008	Z3-3 (3-4) SA83119-02 9/25/2008	Z3-4 (9-10) SA83119-07 9/25/2008	Z3-4 (11-12) SA83119-08 9/25/2008	Z3-6 (9-10) SA83119-03 9/25/2008	Z3-6 (13-14) SA83119-06 9/25/2008	Z3-8 (9-10) SA83119-03 9/25/2008	Z3-6 (12-13) SA83119-04 9/25/2008	Z3-7 (8-9) SA83143-01 9/25/2008	Z3-7 (11-12) SA83143-02 9/25/2008
				8-9	3-4	9-10	11-12	9-10	13-14	9-10	12-13	8-9	11-12
SVOC BASE NEUTRALS (mg/kg)													
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	13	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	400	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
PCB 1016	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
PCB 1221	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
PCB 1232	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
PCB 1242	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
PCB 1248	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
PCB 1254	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	0.0665	0.206
PCB 1260	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	0.131
PCB 1262	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
PCB 1268	NA	NE	NE	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	<0.0664	<0.0762
Total PCBs	NA	1	10	<0.0219	<0.0217	<0.0241	<0.0656	<0.0601	<0.843	<0.0227	<0.0255	0.0665	0.337
Extractable Total Petroleum													
CT ETPH	2,500	500	2,500	<29.8	NA	546	882	219	993	683	230	4,120	478

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	Z3-8 (9-10) SA83143-03 9/25/2008	Z3-8 (11-12) SA83143-04 9/25/2008	Z3-9 (9-10) SA83143-05 9/25/2008	Z3-9 (11-12) SA83143-06 9/25/2008	Z3-10 (10-11) SA83143-12 9/25/2008	Z3-11 (7-8) SA83143-13 9/25/2008	Z3-12 (4-5) SA83143-07 9/25/2008	Z3-12 (6-7) SA83143-08 9/25/2008	Z3-13 (2.5-3.5) SA83143-13 9/25/2008	Z3-13 (9-10) SA83143-14 9/25/2008
	9-10	11-12	9-10	11-12	10-11	7-8	4-5	6-7	2.5-3.5	9-10
SVOC BASE NEUTRALS (mg/kg)										
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
PCB 1016	0.149	0.108	0.0881	0.232	<0.0757	0.128	<0.0229	0.0732	<0.0693	0.529
PCB 1221	<0.0701	<0.0661	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	<0.024	<0.0693	<0.0794
PCB 1232	<0.0701	<0.0661	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	<0.024	<0.0693	<0.0794
PCB 1242	<0.0701	<0.0661	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	<0.024	<0.0693	<0.0794
PCB 1248	<0.0701	<0.0661	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	<0.024	<0.0693	<0.0794
PCB 1254	0.171	0.0733	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	0.283	<0.0693	<0.0794
PCB 1260	0.0833	<0.0661	0.142	0.181	<0.0757	0.446	<0.0229	0.434	<0.0693	<0.0794
PCB 1262	<0.0701	<0.0661	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	<0.024	<0.0693	<0.0794
PCB 1268	<0.0701	<0.0661	<0.0242	<0.0826	<0.0757	<0.0251	<0.0229	<0.024	<0.0693	<0.0794
Total PCBs	0.4033	0.1813	0.2301	0.413	<0.0757	0.574	<0.0229	0.7902	<0.0693	0.529
Extractable Total Petroleum										
CT ETPH	228	223	597	1,320	432	586	1,430	581	<32.6	<33.0

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed
NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
* - Re-analyzed Value
Bold indicates an exceedance of one or more criteria.

Table 1
Zone 2
Additional Characterization Soil Analytical Results
73-83 Rebecchi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GW PMC	RES DEC	I/C DEC	Z2-14 (3-4) SA85337-01 9/29/2008 3-4	Z2-14 (8-9) SA85337-02 9/29/2008 8-9	Z2-16 (3-4) SA85337-03 9/29/2008 3-4	Z2-16 (11-12) SA85337-04 9/29/2008 11-12	Z2-18 (3-4) SA85143-09 9/25/2008 3-4	Z2-18 (8.5-9.5) SA85143-10 9/25/2008 8.5-9.5	Z2-17 (8-9) SA85337-05 9/29/2008 8-9	Z2-17 (12-13) SA85337-06 9/29/2008 12-13	Z2-18 (7-8) SA85337-07 9/29/2008 7-8	Z2-18 (10-11) SA85337-09 9/29/2008 10-11	Z2-19 (2-3) SA85337-11 9/29/2008 2-3	Z2-19 (14-15) SA85337-12 9/29/2008 14-15	Z2-20 (7-8) SA85337-08 9/29/2008 7-8	Z2-20 (10-11) SA85337-10 9/29/2008 10-11	Z2-21 (2-3) SA85337-14 9/29/2008 2-3	Z2-21 (14-15) SA85337-13 9/29/2008 14-15	Z2-22 (2-3) SA85337-16 9/29/2008 2-3	Z2-22 (14-15) SA85337-17 9/29/2008 14-15	Z2-DUP-1 SA85143-01 9/24/2008 NA	Z2-DUP-2 SA85337-15 9/29/2008 NA
SVOC BASE NEUTRALS (mg/kg)																							
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,559	<0.367	NA	NA	NA	NA	NA	NA	NA	3,315
2-Methylnaphthalene	70	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,868	<0.367	NA	NA	NA	NA	NA	NA	NA	1,429
Acenaphthene	842	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420	<0.367	NA	NA	NA	NA	NA	NA	NA	<423
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	872	<0.367	NA	NA	NA	NA	NA	NA	NA	893
1-Methylnaphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,529	<0.367	NA	NA	NA	NA	NA	NA	NA	1,080
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,148	<0.367	NA	NA	NA	NA	NA	NA	NA	2,122
Anthracene	400	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	534	<0.367	NA	NA	NA	NA	NA	NA	NA	531
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,648	<0.367	NA	NA	NA	NA	NA	NA	NA	1,480
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,309	<0.367	NA	NA	NA	NA	NA	NA	NA	1,312
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	577	<0.367	NA	NA	NA	NA	NA	NA	NA	680
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	533	<0.367	NA	NA	NA	NA	NA	NA	NA	574
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	472	<0.367	NA	NA	NA	NA	NA	NA	NA	473
PCBs (mg/kg)																							
PCB 1016	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1221	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1232	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1242	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1248	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1254	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	0.582	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1260	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	1.04	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1262	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
PCB 1268	NA	NE	NE	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	<0.0784	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
Total PCBs	NA	1	10	<0.0718	<0.0657	<0.0774	<0.0732	<0.0643	<0.0227	<0.081	<0.0685	1.622	<0.0623	<0.0682	<0.0682	<0.0769	<0.0643	<0.0642	<0.0688	<0.0718	<0.0668	<0.0629	<0.0667
Extractable Total Petroleum																							
CT ETPH	2,500	500	2,500	2,818	43.5	430	127	611	98.7	113	<30.6	350	174	23,300	<18.0	54.3	<22.1	<21.3	<22.0	58.0	<22.9	838	3,920

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed
NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial Commercial Direct Exposure Criteria
* - Re-analyzed Value
Bold indicate an exceedance of one or more criteria.

Table 3
Zone 2
Additional Characterization Soil Analytical Results
75-89 Robeout Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	IC DEC	Z2-P12 / SA85143-15 / 6/25/2008 / NA
SVOC BASE NEUTRALS (mg/kg)				
Naphthalene	56	1,000	2,500	NA
2-Methylnaphthalene	13	474	2,500	NA
Acenaphthene	843	1,000	2,500	NA
Fluorene	56	1,000	2,500	NA
1-Methylnaphthalene	56	1,000	2,500	NA
Phenanthrene	40	1,000	2,500	NA
Anthracene	400	1,000	2,500	NA
Fluoranthene	56	1,000	2,500	NA
Pyrene	40	1,000	2,500	NA
Benzo (a) anthracene	1	1	7.8	NA
Chrysene	1	84	780	NA
Benzo (a) pyrene	1	1	1	NA
PCBs (mg/kg)				
PCB 1016	NA	NE	NE	11.9*
PCB 1221	NA	NE	NE	<0.1[illegible]*
PCB 1232	NA	NE	NE	<0.1[illegible]*
PCB 1242	NA	NE	NE	<0.1[illegible]*
PCB 1248	NA	NE	NE	<0.1[illegible]*
PCB 1254	NA	NE	NE	<0.1[illegible]*
PCB 1260	NA	NE	NE	<0.1[illegible]*
PCB 1262	NA	NE	NE	<0.10[illegible]*
PCB 1268	NA	NE	NE	<0.10[illegible]*
Total PCBs	NA	1	10	11.9*
Extractable Total Petroleum				
CT ETPH	2,500	500	2,500	37.8

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed
NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
* - Re-analyzed Value
Bold indicate an exceedance of one or more criteria.

Table 4
Zone 3
Soil Analytical Results
75-85 Rabaschi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	IC DEC	Z3-1 (9-10) EA34758-01 9/14/2008 9-10	Z3-1 (14-15) EA34758-02 9/14/2008 14-15	Z3-2 (9-10) EA34758-03 9/14/2008 9-10	Z3-3 (9-10) EA34758-04 9/15/2008 9-10	Z3-3 (14-15) EA34758-05 9/15/2008 14-15	Z3-4 (14-15) EA34758-06 9/15/2008 14-15	Z3-4 (9-10) EA34758-07 9/16/2008 9-10	Z3-6 (13-14) EA34758-14 9/16/2008 13-14	Z3-6 (14-15) EA34758-12 9/16/2008 14-15	Z3-6 (9-10) EA34758-13 9/15/2008 9-10	Z3-7 (9-10) EA34758-10 9/16/2008 9-10
SVOC (mg/kg)														
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	8	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	8.4	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)														
PCB 1016	NA	NE	NE	0.353	<0.0334	<0.0337	<0.0348	0.0375	0.0423	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
PCB 1221	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0343	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
PCB 1232	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0343	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
PCB 1242	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0343	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
PCB 1248	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0349	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
PCB 1254	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0343	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	0.252	<0.0312
PCB 1260	NA	NE	NE	0.0625	<0.0334	<0.0337	<0.0348	0.215	<0.0415	0.0593	<0.0337	<0.0392	0.296	<0.0312
PCB 1262	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0343	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
PCB 1268	NA	NE	NE	<0.033	<0.0334	<0.0337	<0.0343	<0.0327	<0.0415	<0.0312	<0.0337	<0.0392	<0.0317	<0.0312
Total PCBs	NA	1	10	0.4155	<0.0334	<0.0337	<0.0343	0.2525	0.0423	0.0593	<0.0337	<0.0392	0.548	<0.0312
Extractable Total Petroleum														
C9-C36	2,500	500	2,500	8,243	2,230	667	567	328	1,130	625	283	<33.8	883	304

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	Z3-7 (14-15) EA34758-11 9/14/2008 14-15	Z3-7 (27-28) EA34758-13 9/16/2008 27-28	Z3-8 (9-10) EA34758-08 9/16/2008 9-10	Z3-8 (14-15) EA34758-09 9/16/2008 14-15	Z3-9 (9-10) EA34758-17 9/17/2008 9-10	Z3-10 (9-10) EA34758-18 9/17/2008 9-10	Z3-11 (8-9) EA34758-20 9/17/2008 8-9	Z3-11 (14-15) EA34758-21 9/17/2008 14-15	Z3-11 (22-23) EA34758-22 9/17/2008 22-23	Z-3 Dup 4 EA34829-21 9/18/2008 NA	Z-3 Dup 3 EA34829-30 9/18/2008 NA	Z-3 Dup 8 EA34998-13 9/23/2008 NA
SVOC (mg/kg)												
Acenaphthene	<0.807	<1.170	NA	NA	NA	<0.308	0.647	NA	NA	NA	NA	10.9
Acenaphthylene	<0.807	<1.170	NA	NA	NA	<0.308	<0.437	NA	NA	NA	NA	<2.29
Dibenzofuran	<0.807	<1.170	NA	NA	NA	<0.308	0.434	NA	NA	NA	NA	7.11
Anthracene	1.17	1.52	NA	NA	NA	<0.308	1.38	NA	NA	NA	NA	8.48
Benzo (a) anthracene	2.31	3.74	NA	NA	NA	<0.308	2.81	NA	NA	NA	NA	7.78
Benzo (a) pyrene	2.23	2.47	NA	NA	NA	<0.308	2.33	NA	NA	NA	NA	8.04
Benzo (b) fluoranthene	2.18	1.83	NA	NA	NA	<0.308	2.44	NA	NA	NA	NA	4.77
Benzo (g,h,i) perylene	0.808	<1.170	NA	NA	NA	<0.308	1.17	NA	NA	NA	NA	<2.29
Benzo (k) fluoranthene	2.07	2.25	NA	NA	NA	<0.308	1.77	NA	NA	NA	NA	3.44
Carbazole	NA	NA	NA	NA	NA	<0.308	<0.437	NA	NA	NA	NA	2.4
Chrysene	2.53	2.85	NA	NA	NA	<0.308	2.86	NA	NA	NA	NA	4.83
Dibenzo (a,h) anthracene	<0.807	<1.170	NA	NA	NA	<0.308	<0.437	NA	NA	NA	NA	<2.29
Fluoranthene	6.53	6.62	NA	NA	NA	0.276	5.75	NA	NA	NA	NA	29.5
Fluorene	<0.807	<1.170	NA	NA	NA	0.344	1.02	NA	NA	NA	NA	11
Indeno (1,2,3-cd) pyrene	1.16	1.23	NA	NA	NA	<0.308	1.33	NA	NA	NA	NA	<2.29
1-Methylnaphthalene	<0.807	<1.170	NA	NA	NA	<0.308	<0.437	NA	NA	NA	NA	3.43
2-Methylnaphthalene	<0.807	<1.170	NA	NA	NA	<0.308	<0.437	NA	NA	NA	NA	<2.29
Naphthalene	<0.807	<1.170	NA	NA	NA	0.74	<0.437	NA	NA	NA	NA	<2.29
Phenanthrene	8.27	6.83	NA	NA	NA	0.844	5.54	NA	NA	NA	NA	38.9
Pyrene	8.72	5.23	NA	NA	NA	0.384	5.58	NA	NA	NA	NA	33.3
PCBs (mg/kg)												
PCB 1016	<0.0337	0.378	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	0.774	<0.0321	<0.0318	<0.0219	0.763
PCB 1221	<0.0337	<0.0450	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	<0.0335	<0.0321	<0.0318	<0.0219	<0.022
PCB 1232	<0.0337	<0.0453	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	<0.0335	<0.0321	<0.0318	<0.0219	<0.022
PCB 1242	<0.0337	<0.0453	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	<0.0335	<0.0321	<0.0318	<0.0219	<0.022
PCB 1248	<0.0337	<0.0453	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	<0.0335	<0.0321	<0.0318	<0.0219	<0.022
PCB 1254	2.08	<0.0450	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	3.5	<0.0321	<0.0318	<0.0219	0.293
PCB 1260	3.46	0.735	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	3.13	<0.0321	0.0661	0.0601	0.552
PCB 1262	<0.0337	<0.0450	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	<0.0335	<0.0321	<0.0318	<0.0219	<0.022
PCB 1268	<0.0337	<0.0453	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	<0.0335	<0.0321	<0.0318	<0.0219	<0.022
Total PCBs	5.54	1.121	<0.0314	<0.0407	<0.0310	<0.0303	<0.0370	8.404	<0.0321	0.0661	0.0601	1.61
Extractable Total Petroleum												
C9-C36	1,358	511	<30	4,080	<29.1	37	608	NA	NA	1,440	1,830	2,410

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicates an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
78-88 Rabasco? Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	CB PMC	RES DEC	IC DEC	Z-3 Dup 6 SA83540-41 9/24/2008	Z-3 Dup 7 SA85113-07 9/24/2008	P-1 (2.5-3.5) SA84718-29 9/17/2008	P-1 (5-6) SA84718-37 9/17/2008	P-1 (7-8) SA84788-19 9/17/2008	P-1 (14-15) SA84788-33 9/17/2008
Sample Depth				NA	NA	2.5-3.5	5-6	7-8	14-15
SVOC (mg/kg)									
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA
Dibenzofuran	6	270	2,500	NA	NA	NA	NA	NA	NA
Anthracene	8.4	1,000	2,500	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA
Carbazole	1	31	290	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)									
PCB 1016	NA	NE	NE	<0.0838	<0.0722	<0.0292	<0.0295	0.335	0.237
PCB 1221	NA	NE	NE	<0.0838	<0.0722	<0.0292	<0.0295	<0.032	<0.0325
PCB 1232	NA	NE	NE	<0.0838	<0.0722	<0.0292	<0.0295	<0.033	<0.0329
PCB 1242	NA	NE	NE	<0.0838	<0.0722	<0.0292	<0.0295	<0.334	<0.0329
PCB 1248	NA	NE	NE	<0.0838	2.85	<0.0292	<0.0295	<0.335	<0.0329
PCB 1254	NA	NE	NE	<0.0838	3.84	<0.0292	<0.0295	<0.334	<0.0329
PCB 1260	NA	NE	NE	<0.0838	7.43	<0.0292	<0.0295	<0.337	<0.0329
PCB 1262	NA	NE	NE	<0.0838	<0.0722	<0.0292	<0.0295	<0.339	<0.0329
PCB 1268	NA	NE	NE	<0.0838	<0.0722	<0.0292	<0.0295	<0.029	<0.0329
Total PCBs	NA	1	10	<0.0838	14.12	<0.0292	<0.0295	0.335	0.237
Extractable Total Petroleum									
CT ETPH	2,500	500	2,500	616	NA	NA	<27.7	2,236	4,870

Boring I.D. / Laboratory I.D. / Sample Date	P-2 (1-2) SA84788-42 9/17/2008	P-2 (3-4) SA84788-43 9/17/2008	P-2 (5-6) SA84788-44 9/17/2008	P-2 (7-8) SA84788-45 9/17/2008	P-2 (10-11) SA84788-46 9/17/2008	P3 (1-2) SA84829-01 9/18/2008	P3 (3-4) SA84829-03 9/18/2008
Sample Depth	1-2	3-4	5-6	7-8	10-11	1-2	3-4
SVOC (mg/kg)							
Acenaphthene	NA	NA	NA	11.5	<0.429	NA	NA
Acenaphthylene	NA	NA	NA	<1.68	<0.429	NA	NA
Dibenzofuran	NA	NA	NA	8.87	<0.429	NA	NA
Anthracene	NA	NA	NA	7.83	<0.429	NA	NA
Benzo (a) anthracene	NA	NA	NA	4.34	<0.429	NA	NA
Benzo (a) pyrene	NA	NA	NA	3.21	<0.429	NA	NA
Benzo (b) fluoranthene	NA	NA	NA	2.84	<0.429	NA	NA
Benzo (g,h,i) perylene	NA	NA	NA	<1.58	<0.429	NA	NA
Benzo (k) fluoranthene	NA	NA	NA	3.83	<0.429	NA	NA
Carbazole	NA	NA	NA	<1.00	<0.429	NA	NA
Chrysene	NA	NA	NA	4.13	<0.429	NA	NA
Dibenzo (a,h) anthracene	NA	NA	NA	<1.89	<0.429	NA	NA
Fluoranthene	NA	NA	NA	31	0.658	NA	NA
Fluorene	NA	NA	NA	8.57	<0.429	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	NA	<1.89	<0.429	NA	NA
1-Methylnaphthalene	NA	NA	NA	7.29	<0.429	NA	NA
2-Methylnaphthalene	NA	NA	NA	8.83	<0.429	NA	NA
Naphthalene	NA	NA	NA	17.9	<0.429	NA	NA
Phenanthrene	NA	NA	NA	27.1	0.637	NA	NA
Pyrene	NA	NA	NA	10.9	0.762	NA	NA
PCBs (mg/kg)							
PCB 1016	<0.0303	<0.0293	<0.0291	0.62	<0.0364	<0.0214	<0.0211
PCB 1221	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
PCB 1232	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
PCB 1242	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
PCB 1248	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
PCB 1254	<0.0303	<0.0293	<0.0291	<0.0332	0.187	<0.0214	<0.0211
PCB 1260	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
PCB 1262	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
PCB 1268	<0.0303	<0.0293	<0.0291	<0.0332	<0.0364	<0.0214	<0.0211
Total PCBs	<0.0303	<0.0293	<0.0291	0.62	0.187	<0.0214	<0.0211
Extractable Total Petroleum							
CT ETPH	NA	NA	NA	7,860	125	NA	NA

Boring I.D. / Laboratory I.D. / Sample Date	P3 (5-6) SA84829-03 9/18/2008	P3 (7-8) SA84829-04 9/18/2008	P3 (9-10) SA84829-05 9/18/2008	P3 (11-12) SA84829-06 9/18/2008	P4 (1-2) SA84829-07 9/18/2008	P4 (3-4) SA84829-08 9/18/2008	P4 (5-6) SA84829-09 9/18/2008	P4 (7-8) SA84829-10 9/18/2008
Sample Depth	5-6	7-8	9-10	11-12	1-2	3-4	5-6	7-8
SVOC (mg/kg)								
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)								
PCB 1016	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1221	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1232	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1242	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1248	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1254	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1260	<0.0205	<0.021	0.0231	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
PCB 1262	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	413	0.0243
PCB 1268	<0.0205	<0.021	<0.022	<0.0225	<0.0204	<0.0198	<4.25	<0.0217
Total PCBs	<0.0205	<0.021	0.0231	<0.0225	<0.0204	<0.0198	413	0.0243
Extractable Total Petroleum								
CT ETPH	NA	NA	632	634	NA	NA	NA	NA

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
75-83 Rebeschi Drive
North Haven, Connecticut

Boring I.D.				P4 (9-10)	P4 (11-12)	P5 (1-2)	P5 (5-6)	P5 (7-8)	P5 (9-10)	P5 (11-12)	P6 (1-2)	P6 (3-4)	P6 (5-6)
Laboratory I.D.				SA84829-11	SA84829-12	SA84829-13	SA84829-14	SA84829-15	SA84829-16	SA84829-17	SA84829-18	SA84829-19	SA84829-20
Sample Date				9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
Sample Depth	GB PMC	RES DEC	IC DEC	9-10	11-12	1-2	5-6	7-8	9-10	11-12	1-2	3-4	5-6
SVOC (mg/kg)													
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	6	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	8.4	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
PCB 1016	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1221	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1232	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1242	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1248	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1254	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1260	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	0.813	<0.0213	<0.0216	<0.0219
PCB 1262	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
PCB 1268	NA	NE	NE	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	<0.0222	<0.0213	<0.0216	<0.0219
Total PCBs	NA	1	10	<0.0223	<0.0209	<0.0209	<0.0208	<0.0221	<0.022	0.813	<0.0213	<0.0216	<0.0219
Extractable Total Petroleum													
CT ETPH	2,500	500	2,500	129	413	NA	NA	NA	253	2,032	NA	NA	NA

Boring I.D.	P-6 (7-8)	P-6 (9-10)	P-6 (11-12)	P-7 (1-2)	P-7 (3-4)	P-7 (5-6)	P-7 (7-8)	P-8 (1-2)	P-8 (3-4)	P-8 (5-6)
Laboratory I.D.	SA84829-21	SA84829-22	SA84829-23	SA85113-21	SA85113-22	SA85113-23	SA85113-24	SA84758-24	SA84758-25	SA84758-47
Sample Date	9/18/2008	9/18/2008	9/18/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/17/2008	9/17/2008	9/17/2008
Sample Depth	7-8	9-10	11-12	1-2	3-4	5-6	7-8	1-2	3-4	5-6
SVOC (mg/kg)										
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
PCB 1016	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	0.181	<0.0301	<0.0256	<0.0307
PCB 1221	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1232	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1242	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1248	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1254	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1260	<0.0212	<0.021	0.148	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1262	<0.0212	0.0468	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
PCB 1268	<0.0212	<0.021	<0.0211	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
Total PCBs	<0.0212	0.0468	0.148	<0.0632	<0.0637	<0.0628	<0.06	<0.0301	<0.0256	<0.0307
Extractable Total Petroleum										
CT ETPH	NA	1,270	155	NA	NA	NA	<0.0297	NA	NA	NA

Notes:
μg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicates an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
79-85 Rabasco Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	IC DEC	P-8 (7.5-8.5) SA84755-28 9/17/2008 7.5-8.5	P-8 (10-11) SA84755-29 9/17/2008 10-11	P-8 (13-14) SA84755-30 9/17/2008 13-14	P-9 (1-2) SA84965-01 9/22/2008 1-2	P-9 (3-4) SA84965-02 9/22/2008 3-4	P-9 (5-6) SA84965-03 9/22/2008 5-6	P-9 (7-8) SA84965-04 9/22/2008 7-8	P-9 (9-10) SA84965-05 9/22/2008 9-10	P-9 (11-12) SA84965-06 9/22/2008 11-12	P-10 (1-2) SA84829-36 9/19/2008 1-2
SVOC (mg/kg)													
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	6	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	3.6	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
PCB 1016	NA	NE	NE	0.314	0.243	0.0647	<0.0206	<0.0203	<0.022	<0.0211	0.297	0.208	<0.0199
PCB 1221	NA	NE	NE	<0.0325	<0.0342	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	<0.0223	<0.0217	<0.0199
PCB 1232	NA	NE	NE	<0.0325	<0.0342	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	<0.0223	<0.0217	<0.0199
PCB 1242	NA	NE	NE	<0.0325	<0.0342	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	<0.0223	<0.0217	<0.0199
PCB 1248	NA	NE	NE	<0.0325	<0.0342	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	<0.0223	<0.0217	<0.0199
PCB 1254	NA	NE	NE	<0.0325	<0.0342	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	0.13	<0.0217	<0.0199
PCB 1260	NA	NE	NE	0.162	0.167	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	0.0229	<0.0217	0.0458
PCB 1262	NA	NE	NE	<0.0325	<0.0342	<0.0332	0.0673	<0.0203	0.229	<0.0211	<0.0223	0.096	<0.0199
PCB 1268	NA	NE	NE	<0.0325	<0.0342	<0.0332	<0.0206	<0.0203	<0.022	<0.0211	<0.0223	<0.0217	<0.0199
Total PCBs	NA	1	10	0.476	0.41	0.0647	0.0673	<0.0203	0.229	<0.0211	0.4499	0.304	0.0458
Extractable Total Petroleum													
CT ETPH	2,500	500	2,500	NA	8,330	NA	NA	NA	NA	NA	8,813	4,150	NA

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	P-10 (3-4) SA84829-41 9/19/2008 3-4	P-10 (5-6) SA84829-42 9/19/2008 5-6	P-10 (9-10) SA84829-43 9/19/2008 9-10	P-11 (1-2) SA84829-45 9/19/2008 1-2	P-11 (5-6) SA84829-46 9/19/2008 5-6	P-11 (7-8) SA84829-47 9/19/2008 7-8	P-11 (9-10) SA84829-48 9/19/2008 9-10	P-11 (11-12) SA84829-49 9/19/2008 11-12	P-12 (1-2) SA84829-29 9/19/2008 1-2	P-12 (3-4) SA84829-33 9/19/2008 3-4
SVOC (mg/kg)										
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
PCB 1016	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
PCB 1221	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
PCB 1232	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
PCB 1242	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
PCB 1248	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
PCB 1254	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	0.177	<0.0224	<0.0202	<0.0207
PCB 1260	<0.0158	<0.0205	0.0368	<0.0208	<0.02	<0.0205	0.0797	<0.0224	<0.0202	<0.0207
PCB 1262	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
PCB 1268	<0.0158	<0.0205	<0.0209	<0.0208	<0.02	<0.0205	<0.0217	<0.0224	<0.0202	<0.0207
Total PCBs	<0.0158	<0.0205	0.0368	<0.0208	<0.02	<0.0205	0.2567	<0.0224	<0.0202	<0.0207
Extractable Total Petroleum										
CT ETPH	NA	NA	243	NA	NA	NA	725	153	NA	NA

Notes:
µg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicates an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
75-83 Robecchi Drive
North Haven, Connecticut

Boring I.D. Laboratory I.D. Sample Date Sample Depth	GA PMC	RES DEC	IC DEC	P-12 (5-6) SA84829-41 9/19/2008 5-6	P-12 (7-8) SA84829-42 9/19/2008 7-8	P-12 (9-10) SA84829-43 9/19/2008 9-10	P-12 (11-12) SA84829-44 9/19/2008 11-12	P-13 (1-2) SA84829-23 9/18/2008 1-2	P-13 (3-4) SA84829-24 9/18/2008 3-4	P-13 (5-6) SA84829-25 9/18/2008 5-6	P-13 (7-8) SA84829-26 9/18/2008 7-8	P-13 (9-10) SA84829-27 9/18/2008 9-10	P-13 (11-12) SA84829-28 9/18/2008 11-12	P-14 (1-2) SA84829-35 9/18/2008 1-2	P-14 (3-4) SA84829-36 9/18/2008 3-4	P-14 (5-6) SA84829-37 9/18/2008 5-6	P-14 (7-8) SA84829-38 9/18/2008 7-8	P-14 (9-10) SA84829-39 9/18/2008 9-10	P-14 (11-12) SA84829-40 9/18/2008 11-12	P-14 (13-14) SA84829-12 9/17/2008 13-14	P-15 (1-2) SA84733-31 9/17/2008 1-2	P-15 (3-4) SA84733-32 9/17/2008 3-4	P-15 (5-6) SA84733-33 9/17/2008 5-6
SVOC (ug/kg)																							
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	6	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	8.1	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																							
PCB 1016	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	0.0309	<0.0204	0.228	0.0701	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	0.811*	<0.0302	<0.030	<0.0291
PCB 1221	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	<0.0205	<0.0204	<0.0225	<0.0214	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	<0.103*	<0.0302	<0.030	<0.0291
PCB 1232	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	<0.0205	<0.0204	<0.0225	<0.0214	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	<0.103*	<0.0302	<0.030	<0.0291
PCB 1242	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	<0.0205	<0.0204	<0.0225	<0.0214	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	<0.103*	<0.0302	<0.030	<0.0291
PCB 1248	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	<0.0205	<0.0204	<0.0225	<0.0214	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	<0.103*	<0.0302	<0.030	<0.0291
PCB 1254	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	0.0887	<0.0204	1.3	0.29	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	0.137	<0.103*	<0.0302	<0.030	<0.0291
PCB 1260	NA	NE	NE	<0.0203	<0.0205	0.0908	<0.0224	<0.021	<0.0204	<0.0205	<0.0204	3.72	0.825	<0.0225	<0.0214	<0.02	<0.0204	0.14	0.181	6.8*	<0.0302	<0.030	<0.0291
PCB 1262	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	0.0245	<0.0204	<0.0225	<0.0214	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	<0.103*	<0.0302	<0.030	<0.0291
PCB 1268	NA	NE	NE	<0.0203	<0.0205	<0.0232	<0.0224	<0.021	<0.0204	<0.0205	<0.0204	<0.0225	<0.0214	<0.0225	<0.0214	<0.02	<0.0204	<0.0245	<0.0248	<0.103*	<0.0302	<0.030	<0.0291
Total PCBs	NA	1	10	<0.0203	<0.0205	0.0908	<0.0224	<0.021	<0.0204	0.1431	<0.0204	5.248	1.1851	<0.0225	<0.0214	<0.02	<0.0204	0.14	0.318	7.611*	<0.0302	<0.030	<0.0291
Extractable Total Petroleum																							
CT ETPH	2,500	500	2,500	NA	NA	234	328	NA	NA	NA	NA	885	443	NA	NA	NA	NA	918	NA	NA	NA	NA	NA

Notes:
ug/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 5
Soil Analytical Results
78-80 Rebecca Drive
North Haven, Connecticut

Boring I.D. Laboratory I.D. Sample Date Sample Depth	GB PMC	RES DEC	IC DEC	P-15 (10-11) SAS47518-24 8/7/2008 10-11	P-16 (1-2) SAS48515-07 8/22/2008 1-2	P-16 (3-4) SAS48545-08 8/22/2008 3-4	P-16 (5-6) SAS48545-09 8/22/2008 5-6	P-16 (7-8) SAS48515-10 8/22/2008 7-8	P-16 (9-10) SAS48545-11 8/22/2008 9-10	P-16 (11-12) SAS48545-12 8/22/2008 11-12	P-17 (1-2) SAS48545-25 8/13/2008 1-2	P-17 (3-4) SAS48515-27 8/13/2008 3-4	P-17 (5-6) SAS48515-28 8/22/2008 5-6	P-17 (7-8) SAS48515-29 8/22/2008 7-8	P-17 (9-10) SAS48515-30 8/22/2008 9-10	P-18 (1-2) SAS48548-48 8/22/2008 1-2	P-18 (3-4) SAS48548-49 8/22/2008 3-4	P-18 (5-6) SAS48548-50 8/22/2008 5-6	P-18 (7-8) SAS48548-51 8/22/2008 7-8	P-18 (9-10) SAS48548-52 8/22/2008 9-10	P-18 (11-12) SAS48548-53 8/22/2008 11-12	P-19 (1-2) SAS48548-13 8/22/2008 1-2	P-19 (3-4) SAS48548-14 8/22/2008 3-4	P-19 (5-6) SAS48548-15 8/22/2008 5-6
SVOC (mg/kg)																								
Acenaphthene	84	1,000	3,500	NA	NA	NA	NA	NA	11.5	23.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	3,500	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	5	510	2,500	NA	NA	NA	NA	NA	<8.54	23.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	4.9	1,000	2,500	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	<8.54	71.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) Pyrene	1	1	1	NA	NA	NA	NA	NA	<8.54	64.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	<8.54	52.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	<8.54	17.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	84	78	NA	NA	NA	NA	NA	<8.54	31.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	7	21	252	NA	NA	NA	NA	NA	<8.54	23.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	<8.54	68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	748	1,000	2,500	NA	NA	NA	NA	NA	30	168	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	84	1,000	2,500	NA	NA	NA	NA	NA	13	34.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	<8.54	72.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	8.2	474	2,500	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	8.2	474	2,500	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	84	1,000	2,500	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	<8.54	<9.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	46.7	158	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																								
PCB 1016	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	0.764	0.947	<0.03	<0.0333	<0.0307	<0.0338	0.549	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1221	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	<0.0317	<0.0342	<0.03	<0.0333	<0.0307	<0.0338	<0.0339	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1232	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	<0.0317	<0.0342	<0.03	<0.0333	<0.0307	<0.0338	<0.0339	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1242	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	<0.0317	<0.0342	<0.03	<0.0333	<0.0307	<0.0338	<0.0339	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1248	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	<0.0317	<0.0342	<0.03	<0.0333	<0.0307	<0.0338	<0.0339	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1254	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	0.308	0.294	<0.03	<0.0333	<0.0307	<0.0338	0.188	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1260	NA	NE	NE	<0.0333	<0.0317	<0.0333	0.0358	<0.0338	0.332	0.614	<0.03	<0.0333	<0.0307	<0.0338	0.462	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1262	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	<0.0317	<0.0342	<0.03	<0.0333	<0.0307	<0.0338	0.154	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
PCB 1268	NA	NE	NE	<0.0333	<0.0317	<0.0333	<0.0313	<0.0338	<0.0317	<0.0342	<0.03	<0.0333	<0.0307	<0.0338	<0.0339	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
Total PCBs	NA	1	10	<0.0333	<0.0317	<0.0333	0.0358	<0.0338	1.104	1.855	<0.03	<0.0333	<0.0307	<0.0338	0.913	<0.0606	<0.0694	<0.0629	<0.0607	<0.0673	<0.0679	<0.0667	<0.0671
Extractable Total Petroleum Hydrocarbons																								
CT ETPH	2,500	500	2,500	3,340	NA	NA	NA	NA	8,500	2,660	NA	NA	NA	NA	4,810	42	NA	NA	1,270	109	NA	NA	NA	NA

Notes:
pg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicates an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
78-88 [illegible] Drive
North Haven, Connecticut

Boring I.D.				P19 (7-8)	P19 (9-10)	P19 (11-12)	P20 (1-2)	P20 (3-4)	P20 (5-6)	P20 (7-8)	P20 (9-10)	P20 (11-12)	P-21 (1-2)	P-21 (3-4)	P-21 (5-6)	P-21 (7-8)	P-21 (9-10)	P-21 (11-12)	P-21 (13-14)	P-22 (1-2)	P-22 (3-4)	P-22 (10-11)	P-22 (10-11) DUP
Laboratory I.D.				SA35043-38	SA35043-39	SA35043-42	SA35043-29	SA35043-30	SA35043-31	SA35043-32	SA35043-33	SA35043-34	SA35112-01	SA35112-02	SA35112-03	SA35112-04	SA35112-05	SA35112-06	SA35112-07	SA34788-35	SA34788-36	SA34788-37	SA34788-38
Sample Date				8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008
Sample Depth	GB PMC	RES DEC	IC DEC	7-8	9-10	11-12	1-2	3-4	5-6	7-8	9-10	11-12	1-2	3-4	5-6	7-8	9-10	11-12	13-14	1-2	3-4	10-11	10-11
SVOC (mg/kg)																							
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	9	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	[illegible]	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	7	31	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																							
PCB 1016	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	0.834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	<0.0733	<0.329*	<0.0291	<0.0318	0.423	0.431
PCB 1221	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	<0.0834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	<0.0733	<0.329*	<0.0291	<0.0318	<0.0308	<0.0304
PCB 1232	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	<0.0834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	<0.0733	<0.329*	<0.0291	<0.0318	<0.0308	<0.0304
PCB 1242	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	<0.0834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	<0.0733	<0.329*	<0.0291	<0.0318	<0.0308	<0.0304
PCB 1248	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	<0.0834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	2.77	3.06*	<0.0291	<0.0318	<0.0308	<0.0304
PCB 1254	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	1.81	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	3.18	7.33*	<0.0291	<0.0318	0.187	0.181
PCB 1260	NA	NE	NE	0.113	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	3.7	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	6.78	16.8*	<0.0291	<0.0318	0.494	0.623
PCB 1262	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	<0.0834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	<0.0733	<0.329*	<0.0291	<0.0318	<0.0308	<0.0304
PCB 1268	NA	NE	NE	<0.0657	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	<0.0834	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	<0.0733	<0.329*	<0.0291	<0.0318	<0.0308	<0.0304
Total PCBs	NA	1	10	0.113	<0.0731	<0.0791	<0.0907	<0.0653	<0.0647	<0.0695	<0.0718	6.134	<0.066	<0.0714	<0.0822	<0.0228	<0.0854	12.69	[illegible]	<0.0291	<0.0318	1.104	1.117
Extractable Total Petroleum																							
CT ETPH	2,500	500	2,500	NA	365	681	NA	NA	NA	NA	883	1,293	NA	NA	NA	NA	731	NA	3,810	NA	NA	4,390	3,973

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
75-89 Rebecchi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	IC DEC	P-23 (1-2) SA84065-14 8/22/2008 1-2	P-23 (3-4) SA84065-15 8/22/2008 3-4	P-23 (5-6) SA84065-16 8/22/2008 5-6	P-23 (7-8) SA84065-17 8/22/2008 7-8	P-23 (9-10) SA84065-18 8/22/2008 9-10	P-23 (11-12) SA84065-19 8/22/2008 11-12	P-24 (1-2) SA84065-31 8/22/2008 1-2	P-24 (3-4) SA84065-32 8/22/2008 3-4	P-24 (5-6) SA84065-33 8/22/2008 5-6	P-24 (7-8) SA84065-34 8/22/2008 7-8
SVOC (mg/kg)													
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	8	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	400	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
PCB 1016	NA	NE	NE	<0.0205	<0.0207	<0.0213	0.801	0.308	<0.0251	<0.020	<0.0209	<0.021	<0.0208
PCB 1221	NA	NE	NE	<0.0205	<0.0207	<0.0213	<0.0213	<0.0219	<0.0251	<0.020	<0.0209	<0.021	<0.0208
PCB 1232	NA	NE	NE	<0.0205	<0.0207	<0.0213	<0.0213	<0.0219	<0.0251	<0.020	<0.0209	<0.021	<0.0208
PCB 1242	NA	NE	NE	<0.0205	<0.0207	<0.0213	<0.0213	<0.0218	<0.0251	<0.020	<0.0209	<0.021	<0.0208
PCB 1248	NA	NE	NE	<0.0205	<0.0207	<0.0213	<0.0213	<0.0218	<0.0251	<0.020	<0.0209	<0.021	<0.0208
PCB 1254	NA	NE	NE	<0.0205	<0.0207	<0.0213	0.347	<0.0218	1.25	<0.020	<0.0209	<0.021	<0.0208
PCB 1260	NA	NE	NE	<0.0205	<0.0207	<0.0213	0.781	0.437	0.309	<0.020	<0.0209	<0.021	<0.0208
PCB 1262	NA	NE	NE	0.023	0.0208	<0.0212	<0.0213	<0.0219	<0.0251	<0.020	<0.0209	<0.021	<0.0208
PCB 1268	NA	NE	NE	<0.0205	<0.0207	<0.0213	<0.0213	<0.0218	<0.0251	<0.020	<0.0209	<0.021	<0.0208
Total PCBs	NA	1	10	0.023	0.0208	<0.0212	1.929	0.745	1.559	<0.020	<0.0209	<0.021	<0.0208
Extractable Total Petroleum													
CT ETPH	2,500	500	2,500	NA	NA	NA	NA	2,720	3,150	NA	NA	NA	NA

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	P-24 (9-10) SA84065-35 8/22/2008 9-10	P-24 (11-12) SA84065-36 8/22/2008 11-12	P25 (1-2) SA85040-42 8/23/2008 1-2	P25 (3-4) SA85040-43 8/23/2008 3-4	P25 (5-6) SA85040-44 8/23/2008 5-6	P25 (7-8) SA85040-45 8/23/2008 7-8	P25 (9-10) SA85040-46 8/23/2008 9-10	P25 (11-12) SA85040-47 8/23/2008 11-12	P26 (1-2) SA85040-18 8/23/2008 1-2	P26 (3-4) SA85040-19 8/23/2008 3-4
SVOC (mg/kg)										
Acenaphthene	11.3	30.9	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	<9.42	<28.6	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	<9.42	<28.6	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	20.2	64.8	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	28.8	83.3	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	25.5	47.5	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	32.3	68.3	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	<9.42	<28.6	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	18	43.8	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	<9.42	<28.6	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	26.1	78.8	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	<9.42	<28.6	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	62.1	189	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	15.8	40.3	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	8.88	<28.6	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	<9.42	<28.4	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	<9.43	<28.4	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	<9.43	<28.4	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	83.7	177	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	66	185	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
PCB 1016	0.154	0.111	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1221	<0.0231	<0.0248	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1232	<0.0231	<0.0248	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1242	<0.0231	<0.0248	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1248	<0.0231	<0.0248	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1254	0.225	0.229	<0.0679	<0.0675	<0.0681	<0.0640	0.313	<0.0658	<0.0629	<0.0655
PCB 1260	0.12	0.188	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1262	<0.0231	<0.0248	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
PCB 1268	<0.0231	<0.0248	<0.0679	<0.0675	<0.0681	<0.0640	<0.0731	<0.0658	<0.0629	<0.0655
Total PCBs	0.499	0.528	<0.0672	<0.0675	<0.0681	<0.0640	0.313	<0.0658	<0.0629	<0.0655
Extractable Total Petroleum										
CT ETPH	1,343	3,670	NA	NA	NA	NA	NA	1,140	NA	NA

Notes:
µg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
* - Re-analyzed Value

Table 6
Zone 3
Soil Analytical Results
78-88 Rabasca Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	GB PMC	RES DEC	IC DEC	P28 (7-8) SA85043-25 8/23/2008	P28 (9-10) SA85043-21 8/23/2008	P28 (11-12) SA85043-23 8/23/2008	P27 (1-2) SA85048-1 9/24/2008	P27 (3-4) SA85048-02 9/24/2008	P27 (5-6) SA85048-03 9/24/2008	P27 (7-8) SA85043-04 9/24/2008	P27 (9-10) SA85048-05 9/24/2008	P27 (11-12) SA85048-06 9/24/2008	P-28 (1-2) SA85113-09 9/24/2008
Sample Depth				7-8	9-10	11-12	1-2	3-4	5-6	7-8	9-10	11-12	1-2
SVOC (mg/kg)													
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	8	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	8.8	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	8.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	8.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
PCB 1016	NA	NE	NE	<0.0644	0.134	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1221	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1232	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1242	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1248	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1254	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1260	NA	NE	NE	<0.0644	0.34	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1262	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
PCB 1268	NA	NE	NE	<0.0644	<0.0709	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
Total PCBs	NA	1	10	<0.0644	0.474	<0.0783	<0.0646	<0.068	<0.0615	<0.0582	<0.0711	<0.0649	<0.0232
Extractable Total Petroleum													
CT ETPH	2,500	500	2,500	NA	1,330	477	NA	NA	NA	NA	327	1,178	NA

Boring I.D. / Laboratory I.D. / Sample Date	P-28 (3-4) SA85113-10 9/24/2008	P-28 (5-6) SA85113-11 9/24/2008	P-28 (7-8) SA85113-12 9/24/2008	P-28 (9-10) SA85113-13 9/24/2008	P-28 (11-12) SA85113-14 9/24/2008	P-29 (1-2) SA84738-33 9/17/2008	P-29 (6-7) SA84738-40 9/17/2008	P-29 (11-12) SA84738-41 9/17/2008	P-30 (1-2) SA84965-20 9/22/2008	P-30 (3-4) SA84965-21 9/22/2008
Sample Depth	3-4	5-6	7-8	9-10	11-12	1-2	6-7	11-12	1-2	3-4
SVOC (mg/kg)										
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
PCB 1016	<0.0243	<0.0203	<0.0713	*<0.0655	<0.0684	<0.0259	0.251	0.148	<0.0197	<0.0213
PCB 1221	<0.0243	<0.0203	<0.0713	*<0.0655	<0.0684	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
PCB 1232	<0.0243	<0.0203	<0.0713	*<0.0655	<0.0684	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
PCB 1242	<0.0243	<0.0203	<0.0713	*<0.0655	<0.0684	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
PCB 1248	<0.0243	<0.0203	<0.0713	*<0.0655	1.4	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
PCB 1254	<0.0243	<0.0203	<0.0713	1.04	1.67	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
PCB 1260	<0.0243	<0.0203	<0.0713	1.79	1.83	<0.0259	0.342	0.364	0.0219	<0.0213
PCB 1262	<0.0243	<0.0203	<0.0713	*<0.0655	<0.0684	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
PCB 1268	<0.0243	<0.0203	<0.0713	*<0.0655	<0.0686	<0.0259	<0.0256	<0.0544	<0.0197	<0.0213
Total PCBs	<0.0243	<0.0203	<0.0713	2.83	5.1	<0.0259	0.643	0.516	0.0219	<0.0213
Extractable Total Petroleum										
CT ETPH	NA	NA	NA	1,728	2,063	NA	2,480	3	NA	NA

Notes:
µg/kg - micrograms per kilogram   mg/kg - milligrams per kilogram
NA - Not analyzed   NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
78-88 Rabaschi Drive
North Haven, Connecticut

Boring I.D.	GB PMC	RES DEC	I/C DEC	P-30 (5-6)	P-30 (7-8)	P-30 (9-10)	P-30 (11-12)	P-31 (1-2)	P-31 (3-4)	P-31 (5-6)	P-31 (7-8)	P-31 (11-12)	P32 (1-2)	P32 (3-4)	P32 (5-6)	P32 (7-8)	P32 (9-10)	P32 (10-11)	P33 (1-2)	P33 (3-4)	P33 (5-6)	P33 (7-8)	P33 (9-10)
Laboratory I.D.				SA84368-22	SA84368-33	SA84368-34	SA84368-35	SA84368-37	SA84368-38	SA84368-39	SA84368-40	SA84368-41	SA85343-23	SA85343-24	SA85343-31	SA85343-25	SA85343-27	SA85343-28	SA85343-12	SA85343-13	SA85343-16	SA85343-18	SA85343-19
Sample Date				8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/22/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008	8/23/2008
Sample Depth				5-6	7-8	9-10	11-12	1-2	3-4	5-6	7-8	11-12	1-2	3-4	5-6	7-8	9-10	10-11	1-2	3-4	5-6	7-8	9-10
SVOC (mg/kg)																							
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	8.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	<2.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	5	270	2,500	NA	NA	NA	NA	NA	NA	NA	NA	5.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	11.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	17.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	11.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	1	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	3.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	10.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	280	NA	NA	NA	NA	NA	NA	NA	NA	4.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	17.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	<2.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	35.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	13.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	4.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	3.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	9.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	<2.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	56	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	<2.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	48.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	40	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	43.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																							
PCB 1016	NA	NE	NE	<0.021	<0.0207	0.0963	0.304	<0.0203	<0.0214	<0.0208	0.0633	0.475	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	0.331	<0.0643	<0.0673	<0.0673	1.33	<0.0646
PCB 1221	NA	NE	NE	<0.021	<0.0207	<0.0223	<0.0240	<0.0203	<0.0214	<0.0208	<0.0218	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	<0.0658	<0.0643	<0.0673	<0.0673	<0.0646	<0.0648
PCB 1232	NA	NE	NE	<0.021	<0.0207	<0.0223	<0.0240	<0.0203	<0.0214	<0.0208	<0.0218	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	<0.0658	<0.0643	<0.0673	<0.0673	<0.0646	<0.0648
PCB 1242	NA	NE	NE	<0.021	<0.0207	<0.0223	<0.0240	<0.0203	<0.0214	<0.0208	<0.0218	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	<0.0658	<0.0643	<0.0673	<0.0673	<0.0646	<0.0648
PCB 1248	NA	NE	NE	<0.021	<0.0207	<0.0223	<0.0248	<0.0203	<0.0214	<0.0208	<0.0218	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	<0.0658	<0.0643	<0.0673	<0.0673	<0.0646	<0.0648
PCB 1254	NA	NE	NE	0.0230	<0.0207	0.378	0.239	<0.0203	<0.0214	<0.0208	0.123	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	0.261	<0.0658	<0.0643	0.23	<0.0673	<0.0646	0.0373
PCB 1260	NA	NE	NE	<0.021	<0.0207	0.294	0.37	<0.0203	<0.0214	<0.0208	0.318	2.3	<0.0651	<0.0663	<0.0648	<0.0785	0.315	<0.0658	<0.0643	<0.0673	<0.0673	0.0859	<0.0648
PCB 1262	NA	NE	NE	<0.021	<0.0207	<0.0223	<0.0248	<0.0203	0.073	0.0302	<0.0218	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	<0.0658	<0.0643	<0.0673	<0.0673	<0.0646	<0.0648
PCB 1268	NA	NE	NE	<0.021	<0.0207	<0.0223	<0.0248	<0.0203	<0.0214	<0.0208	<0.0218	<0.0248	<0.0651	<0.0663	<0.0648	<0.0785	<0.0708	<0.0658	<0.0643	<0.0673	<0.0673	<0.0646	<0.0648
Total PCBs	NA	1	10	0.0230	<0.0207	0.7682	0.913	<0.0203	0.073	0.0302	0.4045	2.775	<0.0651	<0.0663	<0.0648	<0.0785	0.576	0.331	<0.0643	0.23	<0.0673	1.4189	0.0373
Extractable Total Petroleum																							
CT ETPH	2,500	500	2,500	NA	NA	3,150	3,530	NA	NA	NA	1,030	8,810	NA	NA	NA	NA	3,880	6,320	NA	NA	NA	NA	181

Notes:
µg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
* - Re-analyzed Value

Table 4
Zone 3
Soil Analytical Results
79-99 Ratanchi Drive
North Haven, Connecticut

Boring I.D. Laboratory I.D. Sample Date Sample Depth	GS PMC	RES DEC	IC DEC	P33 (11-13) SA83048-17 8/29/2008 13-13	P34 (1-2) SA83049-07 8/24/2008 1-2	P34 (3-4) SA83049-08 8/24/2008 3-4	P34 (5-6) SA83049-09 8/24/2008 5-6	P34 (6.5-7.5) SA83049-10 8/24/2008 6.5-7.5	P34 (9-11) SA83049-11 8/24/2008 9-11	P-35 (1-2) SA83113-10 8/24/2008 1-2	P-35 (3-4) SA83113-11 8/24/2008 3-4	P-35 (5-6) SA83113-12 8/24/2008 5-6	P-35 (7-8) SA83113-13 8/24/2008 7-8	P-35 (9-10) SA83113-14 8/24/2008 9-10	P-35 (11-13) SA83113-15 8/24/2008 11-13	P35-1 SA83113-25 8/24/2008 NA	P-31 SA83143-01 8/27/2008 NA
SVOC (mg/kg)																	
Acenaphthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	1	8.4	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	1	31	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	84	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene	1	1	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	8.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	8.8	474	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	84	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	42	1,000	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																	
PCB 1016	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	<0.0663	13 *	NA
PCB 1221	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	<0.0663	<0.217*	NA
PCB 1232	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	<0.0663	<0.217*	NA
PCB 1242	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	<0.0663	<0.217*	NA
PCB 1248	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	3.14	<0.217*	NA
PCB 1254	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	1.53	<0.217*	NA
PCB 1260	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	1.94	<0.217*	NA
PCB 1262	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	<0.0663	<0.217*	NA
PCB 1268	NA	NE	NE	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	<0.0663	<0.217*	NA
Total PCBs	NA	1	10	<0.0625	<0.0656	<0.0657	<0.0665	<0.0649	<0.0642	<0.0258	<0.0313	<0.0316	<0.0643	<0.0675	6.64	13 *	NA
Extractable Total Petroleum Hydrocarbons																	
ETPH (mg/kg)	2,500	500	2,500	105	NA	NA	NA	NA	239	NA	NA	NA	NA	677	1,200	NA	1,600,000

Notes:
µg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - Not Established
RES DEC - Residential Direct Exposure Criteria
IC DEC - Industrial Commercial Direct Exposure Criteria
Bold indicate an exceedance of one or more criteria.
* - Re-analyzed Value

QUALITY ASSURANCE PROJECT PLAN
78-98 Rebeschi Drive
North Haven, Connecticut

Task: PCB Soil Characterization
PCB and ETPH Release Areas

August 14, 2008

Prepared by

Stantec Consulting Services Inc.
20 Church Street – Suite 1710
Hartford CT 06103
Tel: (860) 948-1628 Fax: (860) 948-1629

stantec.com

Stantec

Stantec

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

The Quality Assurance Project Plan (QAPP) was designed to provide a framework for sampling soil impacted with polychlorinated biphenyls (PCBs) and extractable total petroleum hydrocarbons (ETPH) at 78-98 Rebeschi Drive in North Haven, Connecticut (the site). Figure 1 is a site location map. Figure 2 is a site plan with planned sampling locations. The QAPP includes background information about the site, a summary of historical sampling data, a description of the selected sampling strategy, analytical methods, quality control procedures, and a schedule for the completion of soil sampling at the site.

2.0 SITE BACKGROUND

From the 1920s to late 1950s, the Site was occupied by the Montowese Brick Company. The brick company used on-site clay deposits as feed stock for the brick plant. The clay was excavated from the eastern, central, and western portions of the site creating a pond which covered most of the property. The brick plant operated a building at the western edge of 78-98 Rebeschi Drive. Most of the brick plant was located off-site and in the approximate location of I-91 (adjacent to the west).

In the late 1950s, the Montowese Brick Company ended their operations and the Montowese Tool Company began operating a tool company in the building. The Montowese Tool Company operated at the western edge of the site until 1972 when the building was demolished. The remainder of the site remained as a pond until the 1980s. In the 1980s, the Elm City Construction Company filled the ponds and used the site to store sand, gravel, and rock. In 1988, Paul Rebeschi purchased the site and constructed the existing light commercial and industrial buildings. The buildings have been used by a variety of tenants since construction. The United States Surgical Company (USSC) operated a small repair shop and printing facility at the site from 1988 to 1998. USSC generated small quantities of hazardous waste. As a result, the site was identified as an Establishment and subject to the Connecticut Transfer Act.

In 1995, Rizzo Associates conducted soil and groundwater sampling in connection with a real estate transfer. Rizzo Associates identified artificial fill and low levels of petroleum in the fill. During a 1995 property transfer, the certifying party filed a Form I to indicate that no releases of hazardous wastes had occurred at the site (releases of petroleum did not preclude filing of a Form I under the Transfer Act in 1995).

In 2001, an additional soil and groundwater investigation was conducted to support another property transfer. Petroleum hydrocarbons were again detected in soil and groundwater and attributed to the artificial fill. Chlorinated solvents were also detected in groundwater at the southern-side of the site. Rizzo Associates attributed the chlorinated solvents to an off-site release. The certifying party filed a Form I in connection with the 2001 property transfer since no hazardous waste releases were identified (releases of petroleum still did preclude filing a Form I under the Transfer Act in 2001).

In 2004, the DEP rejected the 2001 Form I filing due to the presence of chlorinated solvents in wells at the southern side of the site (RIZ-7, RIZ-8, RIZ-9, and RIZ-10). In response, the certifying party submitted a Form III and Environmental Condition Assessment Form (ECAF). In 2004 and 2005, Rizzo Associates conducted an additional investigation and confirmed that no on-site source of chlorinated solvents existed. The additional investigation included soil sampling, groundwater sampling, and an analysis of vertical hydraulic gradients and groundwater flow patterns for both shallow and deep groundwater. Rizzo Associates again determined that the source of chlorinated solvents was the off-site Aura/Arber/Eton Fujikura site.

Extractable total petroleum hydrocarbons (ETPH) were detected in several soil boring and well locations and is a constituent of fill materials in soil near RIZ-17/RIZ17D and RIZ-15A. A Remedial Action Plan was prepared in August 2006 to excavate the ETPH impacted material. In 2007, the soil excavation was started in the vicinity of RIZ-17/RIZ-17D. A layer of floating

product was encountered at the groundwater interface, and Stantec (formerly SECOR) determined that soil delineation was necessary before additional excavation was completed.

A waste characterization sample was collected from the excavated material and submitted for RCRA waste characterization. PCBs (below 1,000 µg/kg) were detected in the waste characterization sample. Stantec (formerly SECOR) determined that the most likely source of PCBs was historical fill used to fill the former brick yard pond.

Stantec (formerly SECOR) determined that a PCB and ETPH soil investigation was required to evaluate PCBs and ETPH in the fill material. The investigation was conducted in February 2008 and included 25 soil borings (B101 through B125).

PCBs were detected in soil collected at B101 (4-6 fbg)(34.8 µg/kg), B102 (5-6 fbg)(12 µg/kg), and B112 (8-9 fbg).(55,100 µg/kg). PCBs were below the residential Direct Exposure Criteria (res-DEC)(1,000 µg/kg) at B101 and B102, but above the res-DEC at B112. PCBs at B112 (55,100 µg/kg) were also above the threshold triggering the Toxic Substances Control Act (TSCA) self implementing work plan and remediation guidelines (50,000 µg/kg) contained in 40 CFR Part 761.

ETPH impacted soils were also identified at B101 (4-6 fbg), B102 (6-8 fbg), B105 (305 fbg), B107 (6-6.5 fbg), B108 (6-6.5 fbg), B109 (6-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B120 (5-6 fbg), B121, B122 (4-6 fbg), B123 (4-11 fbg), B124 (6-7 fbg), and B125 (7-8 fbg). ETPH exceeded the res-DEC at B101 (4-6 fbg), B105 (3-4 fbg), B107 (6-6.5 fbg), B108 (6-6.6 fbg), B109 (7-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), B123 (10-11 fbg), and B125 (7-8 fbg). ETPH exceeded the industrial/commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC) at B105 (3-4 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), and B-124 (6-7 fbg).

Low levels of metals including arsenic, barium, chromium, mercury, and lead were detected in some samples at concentrations that are below the res-DEC. Metals may be partly attributable to fill constituents, but may also represent background concentrations at the concentrations that were detected.

Site Description

2.1 Geology and Hydrogeology

The site is located in an area underlain by alluvial fine sand, silt, clay, and gravel deposits. These materials are interbedded and form exist above sedimentary sandstone (New Haven Arkose). Bedrock is greater than 60 feet below grade.

Groundwater at the site is classified as GB groundwater, indicating groundwater known or presumed to be impacted by chemical leaks, spills, or land use impacts. The nearest surface water body is located on-site and is a small surface water pond adjacent to Rebeschi Drive at the southwest-side of the site. Seasonal high groundwater ranges from 3 to 8 fbg.

Fill materials which may include ETPH and/or PCBs are anticipated below the seasonal high groundwater table. Since the res-DEC applies within 15 feet of the surface, each boring will be advanced to 15 fbg.

2.2 Potential Receptor Evaluation

2.2.1 Water Supply Wells

No known water supply wells exist in the vicinity of the site.

2.2.2 Ecological Receptor Identification

Wetlands exist at the site and immediately adjacent to the south-side of the site. Wetlands could be considered a sensitive ecological receptor. However, no evidence was found to suggest that ETPH or PCBs have impacted the wetland. Most portions of the site are either paved or occupied by buildings. A maintained grassed area exists at the southwestern-side of the site. While soil is accessible in this area, soil is covered by vegetation. Site use in this area is infrequent.

2.2.3 Direct Contact

The ETPH and PCB containing materials are buried beneath asphalt and/or concrete at depth. No excavation activities are routinely conducted at the site. As a result, the risk of inadvertent direct contact with the materials is low. The project specific health and safety plan will include provisions for4 minimizing direct contact with the impacted materials.

2.2.4 Subsurface Utilities

Underground utilities consist of natural gas, electricity, water, and sanitary and storm sewer drains located under Rebeschi Drive and between the 78 and 98 Rebeschi Drive buildings. The utilities serve the site building. No evidence was found to suggest that the utilities serve as a preferential pathway for contaminant migration.

Buried utilities will be identified by a private utility locating contractor before the investigation is conducted.

3.0 CONCEPTUAL SITE MODEL

Stantec has developed a conceptual site model (CSM) for the site in accordance with the Connecticut Department of Environmental Protection's (DEP) guidance. The CSM provides a framework for additional site investigation and remediation at the site.

Petroleum Impacted Soil and Groundwater

Artificial fill which may contain ETPH and PCBs exists in the vicinity of RIZ-15A, B105, B106, and B107, and RIZ-17/RIZ-17D. These areas have been designated Zone 1, Zone 2, and Zone 3. Soil in these zones may contain ETPH and PCBs above the res-DEC and/or IC DEC. Further delineation is necessary to determine the three dimensional nature and extent of each release zone.

Chlorinated VOC Impacted Groundwater

The source of chlorinated solvents at 78-98 Rebeschi Drive appears to be from the nearby release of chlorinated solvents at the adjacent Aura/Arber/Eton Fujikura site at 40-50 McDermott Drive. High levels of tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichlorethane (TCA) and related compounds remain in saturated groundwater at the Aura/Arber/Eton Fujikura site. An Environmental Land Use Restriction (ELUR) was filed for saturated soil below 4 fbg and an air sparging system was used to reduce chlorinated volatile organic compounds (VOCs) in groundwater from 1999 to 2002.

Since air sparging physically disperses contaminants, it is likely that at least some of these compounds were transported from the source area to 78-98 Rebeschi Drive (the site) by dispersion. VOC migration may have also occurred as a result of Dense Non Aqueous Phase Liquid (DNAPL) transport on the confining clay layer beneath both sites. VOC migration may have also occurred by molecular diffusion.

The CSM continues to indicate that no source of chlorinated solvents exists at 78-98 Rebeschi Drive.

4.0 QUALITY ASSURANCE PROJECT PLAN

The QAPP contains a summary of the project staff, sampling protocols, analytical methods, and quality control procedures.

Provided in the table below are the individuals involved in the completion of this remedial action listed by specific task.

Responsible Individual	Telephone Number	Task Responsible
John Insall, LEP - Stantec	(860) 948-1628	Project Director
Anthony Koval - Stantec	(860) 948-1628	Project Manager
Martha Lemmon - Stantec	(860) 948-1628	Site Manager

4.1 Analytical Method/Quality Assurance

The soil delineation project includes the collection of soil samples from each zone. The sampling requirements, including matrix, frequency of collection, analytical parameter, analytical method, sample preservation, sample container volume and type, and holding time is provided in the Analytical Methods/Quality Assurance summary table below.

Matrix Type	No. of Samples	No. of Trip/ Field Blanks	Analytical Parameter	Analytical Method	Sample Preser-vation	Sample Container	Sample Holding Time
Zone 1 Soil		1/1	PCBs and ETPH	USEPA Method 8082 (3540C Extraction) and ETPH	Cool 4° C	4 oz. amber jar	14 Days
Zone 2 Soil		1/1	PCBs and ETPH	USEPA Method 8082 (3540C Extraction) and ETPH	Cool 4° C	4 oz. amber jar	14 Days
Zone 3 Soil		1/1	PCBs and ETPH	USEPA Method 8082 (3540C Extraction) and ETPH	Cool 4° C	4 oz. amber jar	14 Days

In zones 1 and 2, and part of Zone 3, soil borings will be spaced 35-40 feet on center to address Transfer Act site characterization requirements. In zone 3, soil borings will be positioned 10 feet on center in the TSCA regulated area. In the Transfer Act regulated area of Zone 3, two selected soil borings will be collected from each boring and analyzed for PCBs by EPA method 3540C and ETPH. Soils selected for analysis will be based on field screening results. In the Transfer Act regulated areas of Zones 1 and 2, we anticipate that the soil borings will be collected when impacted soil becomes evident and below the saturated groundwater zone where it appears the release diminishes (2 samples per boring). Since the DEC applies to 15 fbg, each boring will be advanced to 15 fbg. In the TSCA regulated areas, soil samples will be collected every other foot from the surface to 15 fbg (7 samples per boring) and analyzed for PCBs by EPA Method 3540C. Two selected soil samples per boring in the TSCA

regulated area will also be submitted for ETPH. These soil samples will be based on field screening results and designed to delineate the volume of ETPH impacted soil in this area. In summary, the following breakdown of samples is anticipated:

- ZONE 1 = 26 borings x 2 samples per boring (52 samples total) for PCBs and ETPH.
- ZONE 2 = 25 borings x 2 samples per boring (50 samples total) for PCBs and ETPH.
- ZONE 3 (non TSCA area) = 12 borings x 2 samples per boring (24 samples total) for PCBs and ETPH.
- ZONE 3 (TSCA regulated) = 42 borings x 7 samples per boring (294 samples total) for PCBs; and 2 samples per boring for ETPH (84 samples).
-

4.2 Sampling Methodology

Soil samples will be collected using a direct push Geoprobe. Soil will be collected from the appropriate sampling interval using disposable scoops. Soil from the representative depth will be homogenized in disposable paper bowls. Each sample will be homogenized in new and uncontaminated scoops and bowls before being transferred into laboratory glassware. Samples will be labeled and recorded on a Chain of Custody (COC) on a daily basis.

Soil descriptions will be recorded in the field and note field screening results with a photoionization detector (PID), staining, grain characteristics, and the presence of fill materials.

Prior to delivery to the laboratory, soil will be stored on ice at 4 degrees Celsius.

All soil samples will be collected using the CT DEP soil sampling guidance document dated February 2006.

After each soil boring has been completed, borings will be backfilled with soil cuttings and the surface will be repaired with asphalt patch or concrete, as appropriate.

Soil will be delivered to the lab for PCB and ETPH analyses using extraction method 3540C.

4.3 Equipment Summary

The following mechanical equipment will be utilized during the field work associated with the proposed remedial action: a PID equipped with a 10.7 eV lamp, a water depth probe, and the appropriate sampling apparatus. All non-disposable equipment will be cleaned between sampling locations using Alconox detergent, water rinse, hexane rinse, and water rinse. Investigation derived wastes will be containerized pending off-site disposal.

Other equipment will be operated in accordance with the manufacturer specification, including calibration of all field instruments, which is performed prior to the initiation of field work and on a schedule indicated by the manufacturer.

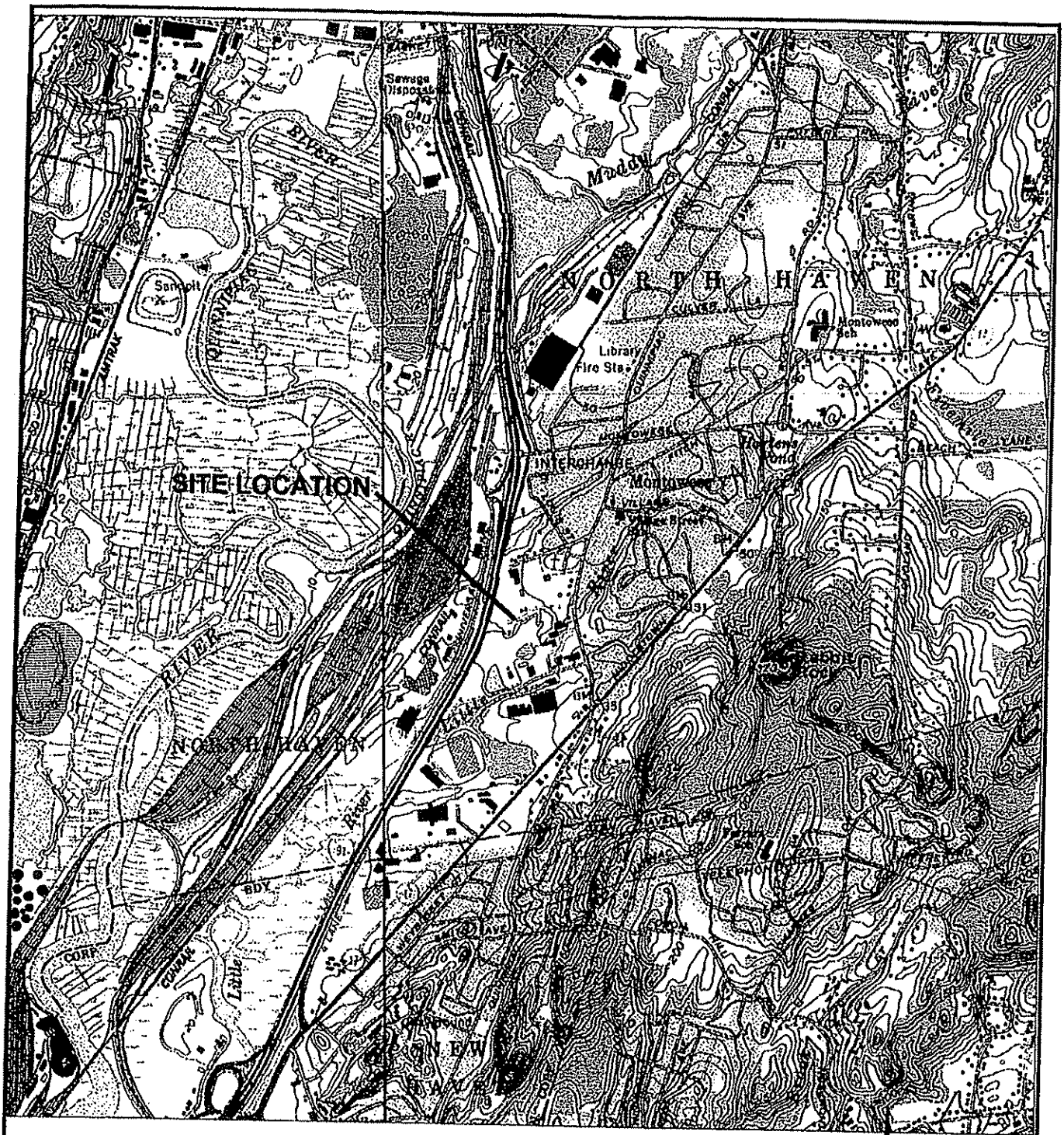
4.4 Laboratory Summary

All samples collected as part of this scope of work will be analyzed by Spectrum Analytical, Inc. of Agawam, Massachusetts. Spectrum is a NELAC accredited laboratory and holds Connecticut Laboratory certification PH-0777.

All lab analyses will be conducted with the use of Reasonable Confidence Protocols (RCPs) to ensure laboratory data quality.

5.0 PROPOSED SCHEDULE

The soil investigation is planned from August 20, 2008 to September 5, 2008. Soil samples will be analyzed on a standard ten day turn around schedule. Analytical results will be available September 3-19th, 2008.



SOURCES:
USGS 7.5 MINUTE TOPOGRAPHIC MAPS--
NEW HAVEN, CT AND
BRANFORD, CT QUADRANGLES

SECOR
100 PEARL STREET, 14TH FLOOR
HARTFORD, CONNECTICUT 06103
PHONE (860) 249-7634 FAX (860) 249-7037

PREPARED FOR:				FIGURE:
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		SITE LOCATION MAP		1
JOB NUMBER: 63OT.01297.03.0001	DRAWN BY: KM	CHECKED BY: AT	APPROVED BY: AT	DATE: 02/13/08

63OT-01297-SLM

APPENDIX A
PCB SOIL INVESTIGATION REPORT
78-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

PCB SOIL INVESTIGATION REPORT

78-98 Rebeschi Drive
North Haven, Connecticut 06108

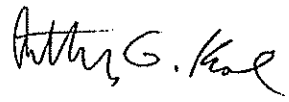
SECOR PN: 63OT.01297.08/0001

Submitted by:
Stantec Consulting Services, Inc.
20 Church Street
Suite 1710
Hartford, Connecticut 06103

Prepared for:
Winstanley Enterprises LLC
150 Baker Avenue Extension
Suite 303
Concord, MA 01742

June 19, 2008

Prepared by:



Anthony Koval
Scientist

Reviewed by:

John Insall, L.E.P.
Senior Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 EXECUTIVE SUMMARY

Stantec Consulting Services, Inc. (formerly SECOR), is pleased to present the findings of our PCB soil investigation at 78-98 Rebeschi Drive in North Haven, Connecticut.

The soil investigation was performed to provide additional site characterization data for PCBs in fill materials in the unsaturated soil zone across the site. The investigation included the installation of 23 additional soil borings to saturated groundwater. Soil screening in the field, and soil analysis for PCBs using EPA Method 3540C. During the investigation, selected soil samples were also analyzed for extractable total petroleum hydrocarbons (ETPH) and poly aromatic hydrocarbons (PAH) by EPA Method 8270 and total 8 Resource Conservation and Recovery Act (RCRA) metals. The soil samples selected for additional analyses were selected based on field screening results and visual appearance of soils.

PCBs were detected in soil collected at B101 (4-6 fbg)(34.8 µg/kg), B102 (5-6 fbg)(12 µg/kg), and B112 (8-9 fbg).(55,100 µg/kg). PCBs were below the residential Direct Exposure Criteria (res-DEC)(1,000 µg/kg) at B101 and B102, but above the res-DEC at B112. PCBs at B112 (55,100 µg/kg) were also above the threshold triggering the Toxic Substances Control Act (TSCA) self implementing work plan and remediation guidelines (50,000 µg/kg) contained in 40 CFR Part 761. As a result, remediation of the release will require EPA review and approval of the remedial work plan.

ETPH impacted soils were also identified at B101 (4-6 fbg), B102 (6-8 fbg), B105 (305 fbg), B107 (6-6.5 fbg), B108 (6-6.5 fbg), B109 (6-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B120 (5-6 fbg), B121, B122 (4-6 fbg), B123 (4-11 fbg), B124 (6-7 fbg), and B125 (7-8 fbg). ETPH exceeded the res-DEC at B101 (4-6 fbg), B105 (3-4 fbg), B107 (6-6.5 fbg), B108 (6-6.6 fbg), B109 (7-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), B123 (10-11 fbg), and B125 (7-8 fbg). ETPH exceeded the industrial/commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC) at B105 (3-4 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), and B-124 (6-7 fbg).

Low levels of metals including arsenic, barium, chromium, mercury, and lead were detected in some samples at concentrations that are below the res-DEC. Metals may be partly attributable to fill constituents, but may also represent background concentrations at the concentrations that were detected.

Conclusions

The data suggest that ETPH exceeds the res-DEC in many locations across the site. ETPH appears to be a constituent of fill materials. Potential response actions may include soil excavation combined with the use of an Environmental Land Use Restriction to render some soils inaccessible and environmentally isolated.

Additional soil characterization is required under 40 CFR Part 761.265 using a three meter sampling grid in each PCB detection area. The sampling protocol must meet the sampling frequency for each release area of at least 3 samples and provide coverage in all directions to adequately characterize each area as outlined in 40 CFR Part 761.283.

Additional soil sampling is also required under the Transfer Act and Remediation Standard Regulations (RSRs) to characterize the extent of ETPH in soils.

2.0 PHASE II PRELIMINARY ACTIVITIES

SECOR conducted the advancement of 23 soil borings in areas of concern identified at the site.

Prior to soil boring and monitoring well installation, SECOR contacted Call Before You Dig to obtain a utility clearance for well and boring locations. SECOR was issued ticket number 20080301792.

3.0 SOIL CHARACTERIZATION SCOPE OF WORK

The soil investigation was performed to provide additional site characterization data for PCBs in fill materials in the unsaturated soil zone across the site. The investigation included the installation of 23 additional soil borings to saturated groundwater. Soil screening in the field, and soil analysis for PCBs using EPA Method 3540C. During the investigation, selected soil samples were also analyzed for extractable total petroleum hydrocarbons (ETPH) and poly aromatic hydrocarbons (PAH) by EPA Method 8270 and total 8 Resource Conservation and Recovery Act (RCRA) metals. The soil samples selected for additional analyses were selected based on field screening results and visual appearance of soils.

The borings were advanced with a truck mounted Geoprobe. Each boring was backfilled with sand and native soil materials and finished at the surface with asphalt upon completion.

4.0 SOIL SAMPLING

Twenty three soil borings were advanced using truck mounted geoprobe on January 24 and 25, 2008. Soil at each location was screened continuously from the surface to saturated groundwater with a calibrated PID equipped with a 11.7 eV lamp. Soil staining was observed at B101, B105, B107, B108, B109, B112, B123, B124, an B125. Soil staining was most pronounced immediately above the saturated groundwater zone at 7-8 feet. However, some shallower soil staining was also observed. Slightly elevated PID recordings were recorded in these locations.

Soil samples were collected and preserved in the field in accordance with the DEP's soil sample preservation guidelines dated March 2006 and submitted to the laboratory for PCB analysis by EPA Method 3540C. After soil sample collection, each sample was stored on ice in a cooler. After soil sampling was completed, the soil samples were transferred under Chain of Custody and stored in a sample refrigerator until transported to the laboratory for analysis. All soil samples were analyzed using the DEP's Reasonable Confidence Protocols (RCPs).

Soil sampling and monitoring well locations are presented on Figure 2 and soil analytical results are presented in Table 1.

5.0 SOIL SAMPLING RESULTS

PCBs were detected in soil collected at B101 (4-6 fbg)(34.8 µg/kg), B102 (5-6 fbg)(12 µg/kg), and B112 (8-9 fbg).(55,100 µg/kg). PCBs were below the residential Direct Exposure Criteria (res-DEC)(1,000 µg/kg) at B101 and B102, but above the res-DEC at B112. PCBs at B112 (55,100 µg/kg) were also above the threshold triggering the Toxic Substances Control Act (TSCA) self implementing work plan and remediation guidelines (50,000 µg/kg) contained in 40 CFR Part 761. As a result, remediation of the release will require EPA review and approval of the remedial work plan.

ETPH impacted soils were also identified at B101 (4-6 fbg), B102 (6-8 fbg), B105 (305 fbg), B107 (6-6.5 fbg), B108 (6-6.5 fbg), B109 (6-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B120 (5-6 fbg), B121, B122 (4-6 fbg), B123 (4-11 fbg), B124 (6-7 fbg), and B125 (7-8 fbg). ETPH exceeded the res-DEC at B101 (4-6 fbg), B105 (3-4 fbg), B107 (6-6.5 fbg), B108 (6-6.6 fbg), B109 (7-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), B123 (10-11 fbg), and B125 (7-8 fbg). ETPH exceeded the industrial/commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC) at B105 (3-4 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), and B-124 (6-7 fbg).

Low levels of metals including arsenic, barium, chromium, mercury, and lead were detected in some samples at concentrations that are below the res-DEC. Metals may be partly attributable to fill constituents, but may also represent background concentrations at the concentrations that were detected.

6.0 DATA REVIEW

SECOR reviewed the data package provided by the laboratory for each sample lot. The data review was intended to ensure that the data meet data quality objectives set by the DEP in guidance documents including the use of RCPs and soil preservation techniques outlined in the DEP guidance document dated March 6, 2006. Our data review also included a review of laboratory duplicates, matrix spike samples, and the RCP narrative.

- No significant data quality issues were identified during the review. The laboratory reported that the data meet the RCP protocols for each set of samples submitted for analysis.

- In addition, no significant deviations in analytical methods, sampling handling, or chain of custody were identified.

7.0 CONCLUSIONS

The data suggest that ETPH exceeds the res-DEC in many locations across the site. ETPH appears to be a constituent of fill materials. Potential response actions may include soil excavation combined with the use of an Environmental Land Use Restriction to render some soils inaccessible and environmentally isolated.

Additional soil characterization is required under 40 CFR Part 761.265 using a three meter sampling grid in each PCB detection area. The sampling protocol must meet the sampling frequency for each release area of at least 3 samples and provide coverage in all directions to adequately characterize each area as outlined in 40 CFR Part 761.283.

Additional soil sampling is also required under the Transfer Act and Remediation Standard Regulations (RSRs) to characterize the extent of ETPH in soils.

Table 1
Additional Soil Characterization
Soil Analytical Results
74-84 Rabaschi Drive
North Haven, Connecticut

Boring I.D. / Laboratory I.D. / Sample Date / Sample Depth	RES DEC	I/C DEC	GA/GAA PMC	GB PMC	B101 (4-4) SA73424-01 1/24/2008 4-4	B102 (5-6) SA73424-02 1/24/2008 5-6	DUP SA73424-03 1/24/2008 5-6	B103 (2-4) SA73424-04 1/24/2008 2-4	B104 (3-4) SA73424-05 1/24/2008 3-4	B105 (3-4) SA73424-06 1/24/2008 3-4	B106 (3-4) SA73424-07 1/24/2008 3-4	B107 (1-2) SA73424-29 1/24/2008 1-2	B107 (6-6.5) SA73424-08 1/24/2008 6-6.5	B108 (6-6.5) SA73424-09 1/24/2008 6-6.5	B109 (6-7) SA73424-12 1/24/2008 6-7	B109 (8-9) SA73424-30 1/24/2008 8-9	B110 (6-7) SA73424-10 1/24/2008 6-7	B111 (6-7) SA73424-11 1/24/2008 6-7	B112 (6-7) SA73424-13 1/24/2008 6-7	B112 (8-9) SA73424-31 1/24/2008 8-9	B113 (4-6) SA73424-14 1/24/2008 4-6	B114 (5-6) SA73424-15 1/24/2008 5-6	B115 (5-6) SA73424-16 1/24/2008 5-6	B116 (6.5-7.5) SA73424-17 1/24/2008 6.5-7.5
Total Metals (mg/kg)																								
Silver	340	10,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	2	NA	<1.45	NA	NA	NA	NA	NA	<1.64	NA	1.61	NA	NA
Arsenic	10	10	NE	NE	NA	NA	NA	NA	NA	NA	NA	1.6	NA	1.96	NA	NA	NA	NA	NA	2.98	NA	<1.53	NA	NA
Barium	4,700	140,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	19.3	NA	60.1	NA	NA	NA	NA	NA	67.3	NA	22.9	NA	NA
Cadmium	34	1,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	<0.522	NA	<0.484	NA	NA	NA	NA	NA	0.711	NA	<0.51	NA	NA
Chromium	100*	100*	NE	NE	NA	NA	NA	NA	NA	NA	NA	2.05	NA	8.68	NA	NA	NA	NA	NA	20.8	NA	1.44	NA	NA
Mercury	20	610	NE	NE	NA	NA	NA	NA	NA	NA	NA	<0.026	NA	0.0740	NA	NA	NA	NA	NA	0.136	NA	<0.0298	NA	NA
Lead	400	1,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	2.22	NA	50.4	NA	NA	NA	NA	NA	310	NA	2.5	NA	NA
Selenium	340	10,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	<1.60	NA	<1.45	NA	NA	NA	NA	NA	<1.54	NA	<1.53	NA	NA
SVOC (ug/kg)																								
Acenaphthene	1,000,000	2,500,000	8,400	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3300	NA	NA	NA	NA	NA	7640	NA	<147	NA	NA
Acenaphthylene	1,000,000	2,500,000	8,400	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	<301	NA	NA	NA	NA	NA	1240	NA	<147	NA	NA
Anthracene	1,000,000	2,500,000	40,000	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	4830	NA	NA	NA	NA	NA	11000	NA	<147	NA	NA
Benzo (a) anthracene	1,000	7,800	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8340	NA	NA	NA	NA	NA	13200	NA	<147	NA	NA
Benzo (a) pyrene	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	7290	NA	NA	NA	NA	NA	14800	NA	<147	NA	NA
Benzo (b) fluoranthene	1,000	7,800	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8060	NA	NA	NA	NA	NA	11500	NA	<147	NA	NA
Benzo (g,h,i) perylene	1,000,000	2,500,000	4,200	42,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	4310	NA	NA	NA	NA	NA	8230	NA	<147	NA	NA
Benzo (k) fluoranthene	8,400	78,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	6560	NA	NA	NA	NA	NA	13400	NA	<147	NA	NA
Chrysene	84,000	780,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	7860	NA	NA	NA	NA	NA	14600	NA	<147	NA	NA
Dibenzo (a,h) anthracene	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3410	NA	NA	NA	NA	NA	3090	NA	<147	NA	NA
Fluoranthene	1,000,000	2,500,000	5,600	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	13300	NA	NA	NA	NA	NA	40100	NA	<147	NA	NA
Fluorene	1,000,000	2,500,000	5,600	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3350	NA	NA	NA	NA	NA	10900	NA	<147	NA	NA
Indeno (1,2,3-cd) pyrene	1,000	7,800	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	4370	NA	NA	NA	NA	NA	4740	NA	<147	NA	NA
1-Methylnaphthalene	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	743	NA	NA	NA	NA	NA	4630	NA	<147	NA	NA
2-Methylnaphthalene	474,000	2,500,000	980	9,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	580	NA	NA	NA	NA	NA	1870	NA	<147	NA	NA
Naphthalene	1,000,000	2,500,000	5,600	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	1500	NA	NA	NA	NA	NA	1330	NA	<147	NA	NA
Phenanthrene	1,000,000	2,500,000	4,000	40,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	23600	NA	NA	NA	NA	NA	42000	NA	<147	NA	NA
Pyrene	1,000,000	2,500,000	4,000	40,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	29400	NA	NA	NA	NA	NA	27100	NA	<147	NA	NA
Polychlorinated Biphenyls (mg/kg)																								
PCB	1	10	NE	NE	0.0348	0.012	0.0376	<0.0298	<0.0305	<0.033	<0.0306	NA	<0.0322	<0.0319	<0.0311	<0.0330	<0.0312	<0.0318	<0.0304	44.1	<0.0308	<0.0313	<0.0309	<0.0315
Extractable Total Petroleum																								
CT ETPH	500	2,500	500	2,500	1820	169	77.3	<26.5	<26.2	4890	<28.8	NA	1590	679	672	1850	<28.3	<30.2	78.3	10300	<28.8	<29.4	<28.9	<30.2

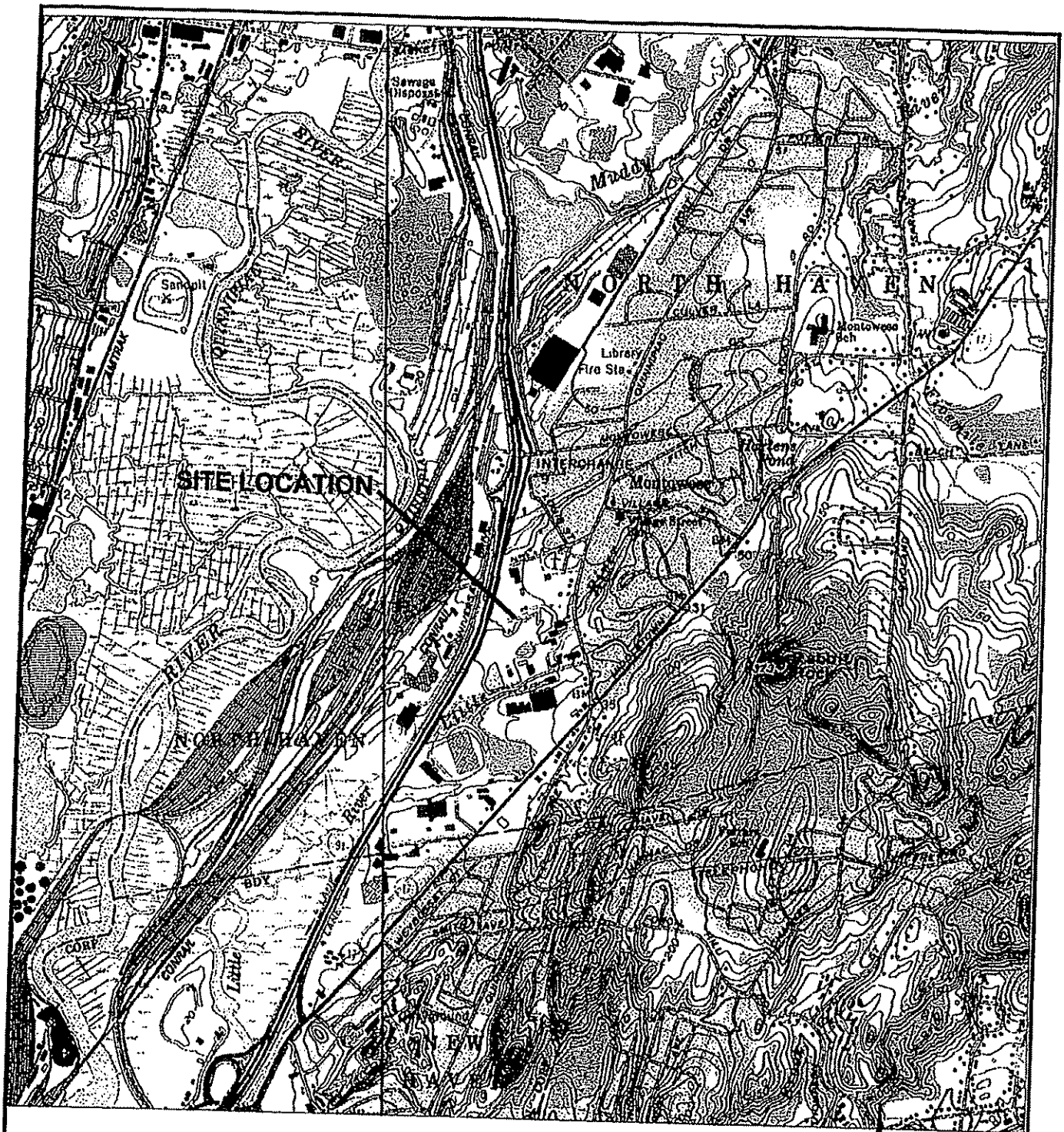
Notes:
ug/kg = micrograms per kilogram mg/kg = milligrams per kilogram
NA = Not analyzed NE = No Established Criteria or not applicable
RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA/GAA PMC = Class GA/GAA Pollutant Mobility Criteria
GB PMC = Class GB Pollutant Mobility Criteria
Bold indicate an exceedance of one or more criteria.
*Criteria is for hexavalent chromium
DUP is a duplicate sample collected from B102 (5-6)

Table 1
Additional Soil Characterization
Soil Analytical Results
78-88 Ridgecrest Drive
North Haven, Connecticut

Boring I.D. Laboratory I.D. Sample Date Sample Depth	RES DEC	I/C DEC	GA/GAA PMC	GB PMC	B117 (5-6) SA73424-19 1/24/2008 5-6	B118 (5-6) SA73424-20 1/25/2008 5-6	B119 (4.5-6) SA73424-21 1/25/2008 4.5-6	B120 (5-6) SA73424-22 1/25/2008 5-6	B121 (5-6.5) SA73424-23 1/25/2008 5-6.5	B122 (5-6) SA73424-24 1/25/2008 5-6	B122 (7-8) SA73424-33 1/25/2008 7-8	B123 (4.5-6.5) SA73424-25 1/25/2008 4.5-6.5	B123 (10-11) SA73424-32 1/25/2008 10-11	B124 (6-7) 1/25/2008 6-7	B125 (4-5.5) SA73424-27 1/25/2008 4-5.5	B125 (7-8) SA73424-34 1/25/2008 7-8
Total Metals (mg/kg)																
Silver	340	10,000	NE	NE	NA	NA	<1.42	<1.44	NA	NA	NA	NA	NA	NA	NA	<1.55
Arsenic	10	10	NE	NE	NA	NA	<1.42	<1.44	NA	NA	NA	NA	NA	NA	NA	4.78
Barium	4,700	140,000	NE	NE	NA	NA	77.5	88.9	NA	NA	NA	NA	NA	NA	NA	67.8
Cadmium	34	1,000	NE	NE	NA	NA	<0.473	<0.479	NA	NA	NA	NA	NA	NA	NA	<0.516
Chromium	100*	100*	NE	NE	NA	NA	19.5	17.7	NA	NA	NA	NA	NA	NA	NA	19.6
Mercury	20	610	NE	NE	NA	NA	<0.07293	<0.0307	NA	NA	NA	NA	NA	NA	NA	<0.283
Lead	400	1,000	NE	NE	NA	NA	7.55	12.1	NA	NA	NA	NA	NA	NA	NA	70.9
Selenium	340	10,000	NE	NE	NA	NA	<1.42	<1.44	NA	NA	NA	NA	NA	NA	NA	<1.55
SVOC (ug/kg)																
Acenaphthene	1,000,000	2,500,000	8,400	84,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	3700
Acenaphthylene	1,000,000	2,500,000	8,400	84,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	4770
Anthracene	1,000,000	2,500,000	40,000	400,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	3750
Benzo (a) anthracene	1,000	7,800	1,000	7,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	8340
Benzo (a) pyrene	1,000	1,000	1,000	7,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	7080
Benzo (b) fluoranthene	1,000	7,800	1,000	7,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	6930
Benzo (g,h,i) perylene	1,000,000	2,500,000	4,700	47,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	4440
Benzo (k) fluoranthene	8,400	78,000	1,000	7,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	6230
Chrysene	84,000	780,000	1,000	7,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	8130
Dibenzo (a,h) anthracene	1,000	1,000	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	1350
Fluoranthene	1,000,000	2,500,000	5,600	56,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	24300
Fluorene	1,000,000	2,500,000	5,600	56,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	11400
Indeno (1,2,3-cd) pyrene	1,000	7,800	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	4008
1-Methylnaphthalene	NE	NE	NE	NE	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	7130
2-Methylnaphthalene	474,000	2,500,000	950	9,500	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	7400
Naphthalene	1,000,000	2,500,000	5,600	56,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	19200
Phenanthrene	1,000,000	2,500,000	4,000	40,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	33500
Pyrene	1,000,000	2,500,000	4,000	40,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	18700
Polychlorinated Biphenyls (mg/kg)																
PCB	1	10	NE	NE	<0.0301	<0.0305	<0.0309	<0.0315	<0.0322	<0.0296	<0.0333	<0.0305	<0.0373	<0.0312	<0.0309	<0.0343
Extractable Total Petroleum																
C7 ETPH	500	2,500	500	2,500	<28.4	<28	<29.6	251	177	264	<30.2	18400	481	6139	343	1629

Notes:
µg/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
GA/GAA PMC - Class GA/GAA Pollutant Mobility Criteria
GB PMC - Class GB Pollutant Mobility Criteria
Bold indicate an exceedance of one or more criteria.
*Criteria is for hexavalent chromium
DUP is a duplicate sample collected from B102 (5-6)

Section 6



SOURCES:
USGS 7.5 MINUTE TOPOGRAPHIC MAPS–
NEW HAVEN, CT AND
BRANFORD, CT QUADRANGLES

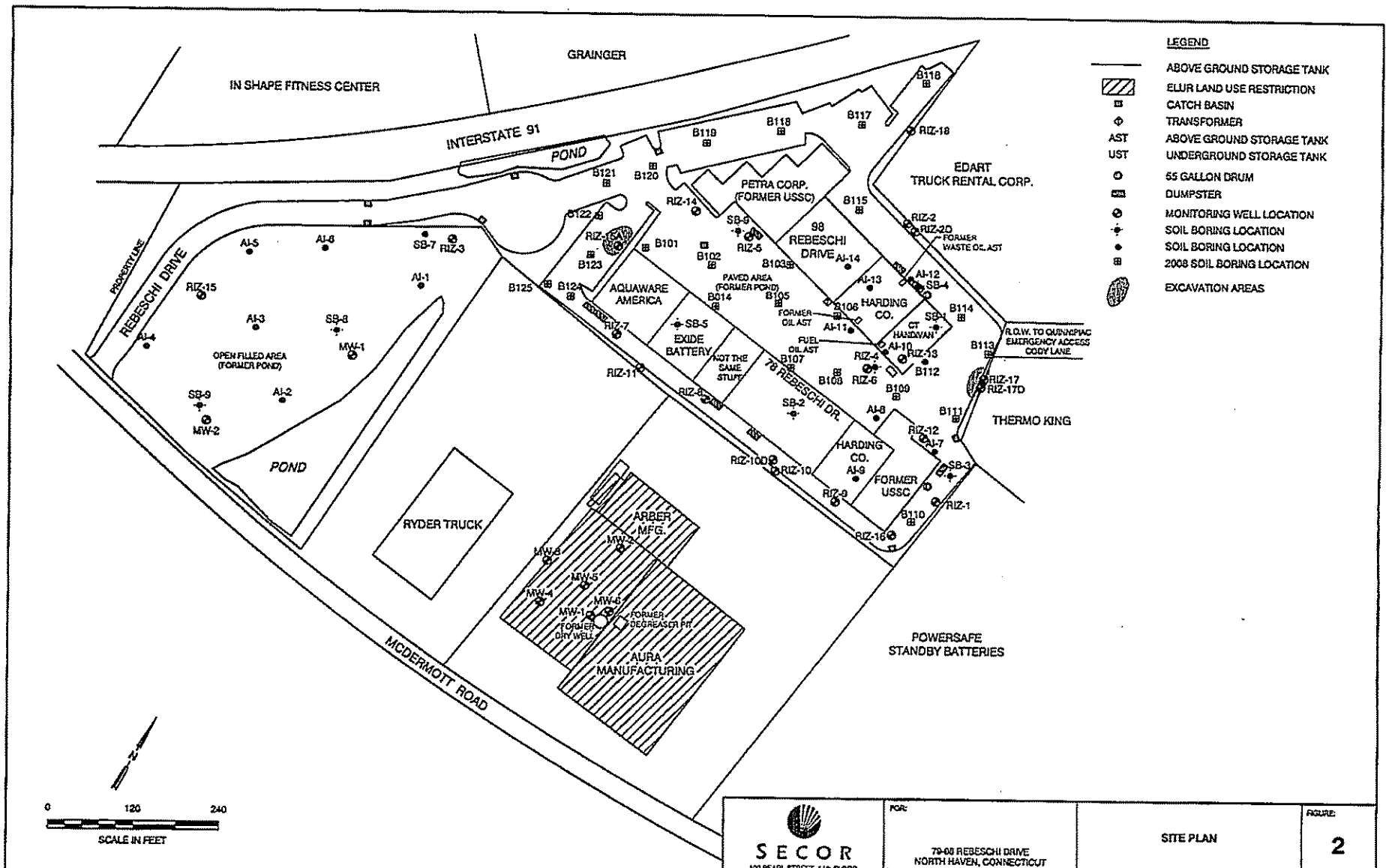
QUADRANGLE LOCATIONS

APPROXIMATE SCALE (FEET)

SECOR
100 PEARL STREET, 14TH FLOOR
HARTFORD, CONNECTICUT 06103
PHONE (860) 249-7034 FAX (860) 249-7037

PREPARED FOR:				FIGURE:
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		SITE LOCATION MAP		1
JOB NUMBER: 63OT.01297.09.0001	DRAWN BY: KM	CHECKED BY: AT	APPROVED BY: AT	DATE: 02/13/08

63OT-01297-SLM



SOURCE: RIZZO ASSOCIATES; 78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 9981P-GW02.DWG, DATE: 09/15/05

DRIVE, NORTH HAVEN,CT

B

QUALITY ASSURANCE PROJECT PLAN
78-98 Rebeschi Drive
North Haven, Connecticut

Task: PCB Soil Characterization
PCB and ETPH Release Areas

August 14, 2008

Prepared by

Stantec Consulting Services Inc.
20 Church Street – Suite 1710
Hartford CT 06103
Tel: (860) 948-1628 Fax: (860) 948-1629

stantec.com

Stantec

Stantec

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

The Quality Assurance Project Plan (QAPP) was designed to provide a framework for sampling soil impacted with polychlorinated biphenyls (PCBs) and extractable total petroleum hydrocarbons (ETPH) at 78-98 Rebeschi Drive in North Haven, Connecticut (the site). Figure 1 is a site location map. Figure 2 is a site plan with planned sampling locations. The QAPP includes background information about the site, a summary of historical sampling data, a description of the selected sampling strategy, analytical methods, quality control procedures, and a schedule for the completion of soil sampling at the site.

2.0 SITE BACKGROUND

From the 1920s to late 1950s, the Site was occupied by the Montowese Brick Company. The brick company used on-site clay deposits as feed stock for the brick plant. The clay was excavated from the eastern, central, and western portions of the site creating a pond which covered most of the property. The brick plant operated a building at the western edge of 78-98 Rebeschi Drive. Most of the brick plant was located off-site and in the approximate location of I-91 (adjacent to the west).

In the late 1950s, the Montowese Brick Company ended their operations and the Montowese Tool Company began operating a tool company in the building. The Montowese Tool Company operated at the western edge of the site until 1972 when the building was demolished. The remainder of the site remained as a pond until the 1980s. In the 1980s, the Elm City Construction Company filled the ponds and used the site to store sand, gravel, and rock. In 1988, Paul Rebeschi purchased the site and constructed the existing light commercial and industrial buildings. The buildings have been used by a variety of tenants since construction. The United States Surgical Company (USSC) operated a small repair shop and printing facility at the site from 1988 to 1998. USSC generated small quantities of hazardous waste. As a result, the site was identified as an Establishment and subject to the Connecticut Transfer Act.

In 1995, Rizzo Associates conducted soil and groundwater sampling in connection with a real estate transfer. Rizzo Associates identified artificial fill and low levels of petroleum in the fill. During a 1995 property transfer, the certifying party filed a Form I to indicate that no releases of hazardous wastes had occurred at the site (releases of petroleum did not preclude filing of a Form I under the Transfer Act in 1995).

In 2001, an additional soil and groundwater investigation was conducted to support another property transfer. Petroleum hydrocarbons were again detected in soil and groundwater and attributed to the artificial fill. Chlorinated solvents were also detected in groundwater at the southern-side of the site. Rizzo Associates attributed the chlorinated solvents to an off-site release. The certifying party filed a Form I in connection with the 2001 property transfer since no hazardous waste releases were identified (releases of petroleum still did preclude filing a Form I under the Transfer Act in 2001).

In 2004, the DEP rejected the 2001 Form I filing due to the presence of chlorinated solvents in wells at the southern side of the site (RIZ-7, RIZ-8, RIZ-9, and RIZ-10). In response, the certifying party submitted a Form III and Environmental Condition Assessment Form (ECAF). In 2004 and 2005, Rizzo Associates conducted an additional investigation and confirmed that no on-site source of chlorinated solvents existed. The additional investigation included soil sampling, groundwater sampling, and an analysis of vertical hydraulic gradients and groundwater flow patterns for both shallow and deep groundwater. Rizzo Associates again determined that the source of chlorinated solvents was the off-site Aura/Arber/Eton Fujikura site.

Extractable total petroleum hydrocarbons (ETPH) were detected in several soil boring and well locations and is a constituent of fill materials in soil near RIZ-17/RIZ17D and RIZ-15A. A Remedial Action Plan was prepared in August 2006 to excavate the ETPH impacted material. In 2007, the soil excavation was started in the vicinity of RIZ-17/RIZ-17D. A layer of floating

product was encountered at the groundwater interface, and Stantec (formerly SECOR) determined that soil delineation was necessary before additional excavation was completed.

A waste characterization sample was collected from the excavated material and submitted for RCRA waste characterization. PCBs (below 1,000 µg/kg) were detected in the waste characterization sample. Stantec (formerly SECOR) determined that the most likely source of PCBs was historical fill used to fill the former brick yard pond.

Stantec (formerly SECOR) determined that a PCB and ETPH soil investigation was required to evaluate PCBs and ETPH in the fill material. The investigation was conducted in February 2008 and included 25 soil borings (B101 through B125).

PCBs were detected in soil collected at B101 (4-6 fbg)(34.8 µg/kg), B102 (5-6 fbg)(12 µg/kg), and B112 (8-9 fbg).(55,100 µg/kg). PCBs were below the residential Direct Exposure Criteria (res-DEC)(1,000 µg/kg) at B101 and B102, but above the res-DEC at B112. PCBs at B112 (55,100 µg/kg) were also above the threshold triggering the Toxic Substances Control Act (TSCA) self implementing work plan and remediation guidelines (50,000 µg/kg) contained in 40 CFR Part 761.

ETPH impacted soils were also identified at B101 (4-6 fbg), B102 (6-8 fbg), B105 (305 fbg), B107 (6-6.5 fbg), B108 (6-6.5 fbg), B109 (6-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B120 (5-6 fbg), B121, B122 (4-6 fbg), B123 (4-11 fbg), B124 (6-7 fbg), and B125 (7-8 fbg). ETPH exceeded the res-DEC at B101 (4-6 fbg), B105 (3-4 fbg), B107 (6-6.5 fbg), B108 (6-6.6 fbg), B109 (7-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), B123 (10-11 fbg), and B125 (7-8 fbg). ETPH exceeded the industrial/commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC) at B105 (3-4 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), and B-124 (6-7 fbg).

Low levels of metals including arsenic, barium, chromium, mercury, and lead were detected in some samples at concentrations that are below the res-DEC. Metals may be partly attributable to fill constituents, but may also represent background concentrations at the concentrations that were detected.

Site Description

2.1 Geology and Hydrogeology

The site is located in an area underlain by alluvial fine sand, silt, clay, and gravel deposits. These materials are interbedded and form exist above sedimentary sandstone (New Haven Arkose). Bedrock is greater than 60 feet below grade.

Groundwater at the site is classified as GB groundwater, indicating groundwater known or presumed to be impacted by chemical leaks, spills, or land use impacts. The nearest surface water body is located on-site and is a small surface water pond adjacent to Rebeschi Drive at the southwest-side of the site. Seasonal high groundwater ranges from 3 to 8 fbg.

Fill materials which may include ETPH and/or PCBs are anticipated below the seasonal high groundwater table. Since the res-DEC applies within 15 feet of the surface, each boring will be advanced to 15 fbg.

2.2 Potential Receptor Evaluation

2.2.1 Water Supply Wells

No known water supply wells exist in the vicinity of the site.

2.2.2 Ecological Receptor Identification

Wetlands exist at the site and immediately adjacent to the south-side of the site. Wetlands could be considered a sensitive ecological receptor. However, no evidence was found to suggest that ETPH or PCBs have impacted the wetland. Most portions of the site are either paved or occupied by buildings. A maintained grassed area exists at the southwestern-side of the site. While soil is accessible in this area, soil is covered by vegetation. Site use in this area is infrequent.

2.2.3 Direct Contact

The ETPH and PCB containing materials are buried beneath asphalt and/or concrete at depth. No excavation activities are routinely conducted at the site. As a result, the risk of inadvertent direct contact with the materials is low. The project specific health and safety plan will include provisions for4 minimizing direct contact with the impacted materials.

2.2.4 Subsurface Utilities

Underground utilities consist of natural gas, electricity, water, and sanitary and storm sewer drains located under Rebeschi Drive and between the 78 and 98 Rebeschi Drive buildings. The utilities serve the site building. No evidence was found to suggest that the utilities serve as a preferential pathway for contaminant migration.

Buried utilities will be identified by a private utility locating contractor before the investigation is conducted.

3.0 CONCEPTUAL SITE MODEL

Stantec has developed a conceptual site model (CSM) for the site in accordance with the Connecticut Department of Environmental Protection's (DEP) guidance. The CSM provides a framework for additional site investigation and remediation at the site.

Petroleum Impacted Soil and Groundwater

Artificial fill which may contain ETPH and PCBs exists in the vicinity of RIZ-15A, B105, B106, and B107, and RIZ-17/RIZ-17D. These areas have been designated Zone 1, Zone 2, and Zone 3. Soil in these zones may contain ETPH and PCBs above the res-DEC and/or IC DEC. Further delineation is necessary to determine the three dimensional nature and extent of each release zone.

Chlorinated VOC Impacted Groundwater

The source of chlorinated solvents at 78-98 Rebeschi Drive appears to be from the nearby release of chlorinated solvents at the adjacent Aura/Arber/Eton Fujikura site at 40-50 McDermott Drive. High levels of tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichlorethane (TCA) and related compounds remain in saturated groundwater at the Aura/Arber/Eton Fujikura site. An Environmental Land Use Restriction (ELUR) was filed for saturated soil below 4 fbg and an air sparging system was used to reduce chlorinated volatile organic compounds (VOCs) in groundwater from 1999 to 2002.

Since air sparging physically disperses contaminants, it is likely that at least some of these compounds were transported from the source area to 78-98 Rebeschi Drive (the site) by dispersion. VOC migration may have also occurred as a result of Dense Non Aqueous Phase Liquid (DNAPL) transport on the confining clay layer beneath both sites. VOC migration may have also occurred by molecular diffusion.

The CSM continues to indicate that no source of chlorinated solvents exists at 78-98 Rebeschi Drive.

4.0 QUALITY ASSURANCE PROJECT PLAN

The QAPP contains a summary of the project staff, sampling protocols, analytical methods, and quality control procedures.

Provided in the table below are the individuals involved in the completion of this remedial action listed by specific task.

Responsible Individual	Telephone Number	Task Responsible
John Insall, LEP - Stantec	(860) 948-1628	Project Director
Anthony Koval - Stantec	(860) 948-1628	Project Manager
Martha Lemmon - Stantec	(860) 948-1628	Site Manager

4.1 Analytical Method/Quality Assurance

The soil delineation project includes the collection of soil samples from each zone. The sampling requirements, including matrix, frequency of collection, analytical parameter, analytical method, sample preservation, sample container volume and type, and holding time is provided in the Analytical Methods/Quality Assurance summary table below.

Matrix Type	No. of Samples	No. of Trip/ Field Blanks	Analytical Parameter	Analytical Method	Sample Preser-vation	Sample Container	Sample Holding Time
Zone 1 Soil		1/1	PCBs and ETPH	USEPA Method 8082 (3540C Extraction) and ETPH	Cool 4° C	4 oz. amber jar	14 Days
Zone 2 Soil		1/1	PCBs and ETPH	USEPA Method 8082 (3540C Extraction) and ETPH	Cool 4° C	4 oz. amber jar	14 Days
Zone 3 Soil		1/1	PCBs and ETPH	USEPA Method 8082 (3540C Extraction) and ETPH	Cool 4° C	4 oz. amber jar	14 Days

In zones 1 and 2, and part of Zone 3, soil borings will be spaced 35-40 feet on center to address Transfer Act site characterization requirements. In zone 3, soil borings will be positioned 10 feet on center in the TSCA regulated area. In the Transfer Act regulated area of Zone 3, two selected soil borings will be collected from each boring and analyzed for PCBs by EPA method 3540C and ETPH. Soils selected for analysis will be based on field screening results. In the Transfer Act regulated areas of Zones 1 and 2, we anticipate that the soil borings will be collected when impacted soil becomes evident and below the saturated groundwater zone where it appears the release diminishes (2 samples per boring). Since the DEC applies to 15 fbg, each boring will be advanced to 15 fbg. In the TSCA regulated areas, soil samples will be collected every other foot from the surface to 15 fbg (7 samples per boring) and analyzed for PCBs by EPA Method 3540C. Two selected soil samples per boring in the TSCA

regulated area will also be submitted for ETPH. These soil samples will be based on field screening results and designed to delineate the volume of ETPH impacted soil in this area. In summary, the following breakdown of samples is anticipated:

- ZONE 1 = 26 borings x 2 samples per boring (52 samples total) for PCBs and ETPH.
- ZONE 2 = 25 borings x 2 samples per boring (50 samples total) for PCBs and ETPH.
- ZONE 3 (non TSCA area) = 12 borings x 2 samples per boring (24 samples total) for PCBs and ETPH.
- ZONE 3 (TSCA regulated) = 42 borings x 7 samples per boring (294 samples total) for PCBs; and 2 samples per boring for ETPH (84 samples).
-

4.2 Sampling Methodology

Soil samples will be collected using a direct push Geoprobe. Soil will be collected from the appropriate sampling interval using disposable scoops. Soil from the representative depth will be homogenized in disposable paper bowls. Each sample will be homogenized in new and uncontaminated scoops and bowls before being transferred into laboratory glassware. Samples will be labeled and recorded on a Chain of Custody (COC) on a daily basis.

Soil descriptions will be recorded in the field and note field screening results with a photoionization detector (PID), staining, grain characteristics, and the presence of fill materials.

Prior to delivery to the laboratory, soil will be stored on ice at 4 degrees Celsius.

All soil samples will be collected using the CT DEP soil sampling guidance document dated February 2006.

After each soil boring has been completed, borings will be backfilled with soil cuttings and the surface will be repaired with asphalt patch or concrete, as appropriate.

Soil will be delivered to the lab for PCB and ETPH analyses using extraction method 3540C.

4.3 Equipment Summary

The following mechanical equipment will be utilized during the field work associated with the proposed remedial action: a PID equipped with a 10.7 eV lamp, a water depth probe, and the appropriate sampling apparatus. All non-disposable equipment will be cleaned between sampling locations using Alconox detergent, water rinse, hexane rinse, and water rinse. Investigation derived wastes will be containerized pending off-site disposal.

Other equipment will be operated in accordance with the manufacturer specification, including calibration of all field instruments, which is performed prior to the initiation of field work and on a schedule indicated by the manufacturer.

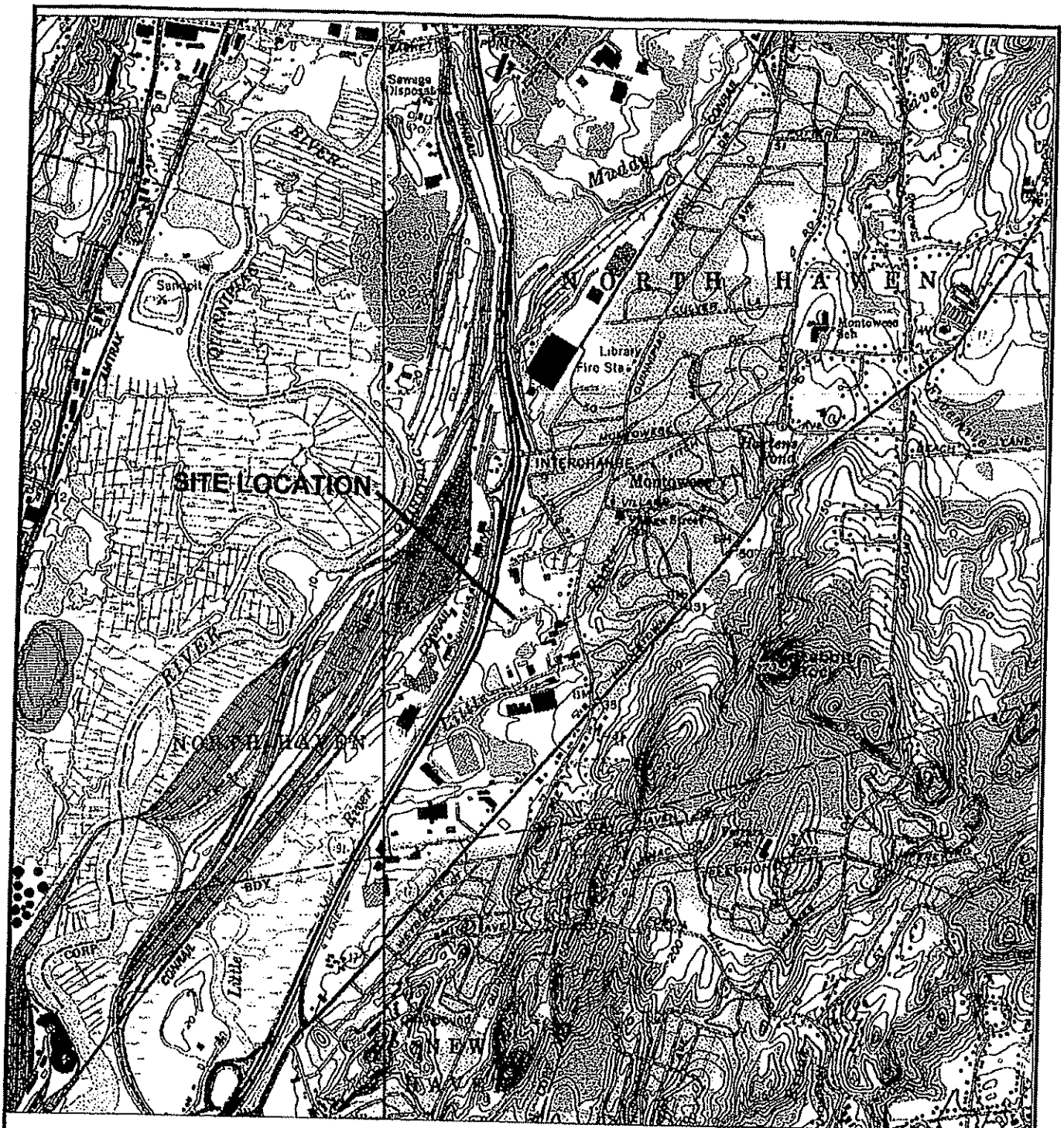
4.4 Laboratory Summary

All samples collected as part of this scope of work will be analyzed by Spectrum Analytical, Inc. of Agawam, Massachusetts. Spectrum is a NELAC accredited laboratory and holds Connecticut Laboratory certification PH-0777.

All lab analyses will be conducted with the use of Reasonable Confidence Protocols (RCPs) to ensure laboratory data quality.

5.0 PROPOSED SCHEDULE

The soil investigation is planned from August 20, 2008 to September 5, 2008. Soil samples will be analyzed on a standard ten day turn around schedule. Analytical results will be available September 3-19th, 2008.



SOURCES:
USGS 7.5 MINUTE
TOPOGRAPHIC MAPS--
NEW HAVEN, CT AND
BRANFORD, CT QUADRANGLES

QUADRANGLE LOCATIONS

0 2000 4000

APPROXIMATE SCALE (FEET)

N

SECOR
100 PEARL STREET, 14TH FLOOR
HARTFORD, CONNECTICUT 06103
PHONE (860) 249-7034 FAX (860) 249-7037

PREPARED FOR:				
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		SITE LOCATION MAP		FIGURE: 1
JOB NUMBER: 63OT.01297.08.0001	DRAWN BY: KM	CHECKED BY: AT	APPROVED BY: AT	DATE: 02/13/08

63OT-01297-SLM

APPENDIX A
PCB SOIL INVESTIGATION REPORT
78-98 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

PCB SOIL INVESTIGATION REPORT

78-98 Rebeschi Drive
North Haven, Connecticut 06108

SECOR PN: 63OT.01297.08/0001

Submitted by:
Stantec Consulting Services, Inc.
20 Church Street
Suite 1710
Hartford, Connecticut 06103

Prepared for:
Winstanley Enterprises LLC
150 Baker Avenue Extension
Suite 303
Concord, MA 01742

June 19, 2008

Prepared by:

Anthony Koval
Scientist

Reviewed by:

John Insall, L.E.P.
Senior Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 EXECUTIVE SUMMARY

Stantec Consulting Services, Inc. (formerly SECOR), is pleased to present the findings of our PCB soil investigation at 78-98 Rebeschi Drive in North Haven, Connecticut.

The soil investigation was performed to provide additional site characterization data for PCBs in fill materials in the unsaturated soil zone across the site. The investigation included the installation of 23 additional soil borings to saturated groundwater. Soil screening in the field, and soil analysis for PCBs using EPA Method 3540C. During the investigation, selected soil samples were also analyzed for extractable total petroleum hydrocarbons (ETPH) and poly aromatic hydrocarbons (PAH) by EPA Method 8270 and total 8 Resource Conservation and Recovery Act (RCRA) metals. The soil samples selected for additional analyses were selected based on field screening results and visual appearance of soils.

PCBs were detected in soil collected at B101 (4-6 fbg)(34.8 µg/kg), B102 (5-6 fbg)(12 µg/kg), and B112 (8-9 fbg).(55,100 µg/kg). PCBs were below the residential Direct Exposure Criteria (res-DEC)(1,000 µg/kg) at B101 and B102, but above the res-DEC at B112. PCBs at B112 (55,100 µg/kg) were also above the threshold triggering the Toxic Substances Control Act (TSCA) self implementing work plan and remediation guidelines (50,000 µg/kg) contained in 40 CFR Part 761. As a result, remediation of the release will require EPA review and approval of the remedial work plan.

ETPH impacted soils were also identified at B101 (4-6 fbg), B102 (6-8 fbg), B105 (305 fbg), B107 (6-6.5 fbg), B108 (6-6.5 fbg), B109 (6-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B120 (5-6 fbg), B121, B122 (4-6 fbg), B123 (4-11 fbg), B124 (6-7 fbg), and B125 (7-8 fbg). ETPH exceeded the res-DEC at B101 (4-6 fbg), B105 (3-4 fbg), B107 (6-6.5 fbg), B108 (6-6.6 fbg), B109 (7-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), B123 (10-11 fbg), and B125 (7-8 fbg). ETPH exceeded the industrial/commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC) at B105 (3-4 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), and B-124 (6-7 fbg).

Low levels of metals including arsenic, barium, chromium, mercury, and lead were detected in some samples at concentrations that are below the res-DEC. Metals may be partly attributable to fill constituents, but may also represent background concentrations at the concentrations that were detected.

Conclusions

The data suggest that ETPH exceeds the res-DEC in many locations across the site. ETPH appears to be a constituent of fill materials. Potential response actions may include soil excavation combined with the use of an Environmental Land Use Restriction to render some soils inaccessible and environmentally isolated.

Additional soil characterization is required under 40 CFR Part 761.265 using a three meter sampling grid in each PCB detection area. The sampling protocol must meet the sampling frequency for each release area of at least 3 samples and provide coverage in all directions to adequately characterize each area as outlined in 40 CFR Part 761.283.

Additional soil sampling is also required under the Transfer Act and Remediation Standard Regulations (RSRs) to characterize the extent of ETPH in soils.

2.0 PHASE II PRELIMINARY ACTIVITIES

SECOR conducted the advancement of 23 soil borings in areas of concern identified at the site.

Prior to soil boring and monitoring well installation, SECOR contacted Call Before You Dig to obtain a utility clearance for well and boring locations. SECOR was issued ticket number 20080301792.

3.0 SOIL CHARACTERIZATION SCOPE OF WORK

The soil investigation was performed to provide additional site characterization data for PCBs in fill materials in the unsaturated soil zone across the site. The investigation included the installation of 23 additional soil borings to saturated groundwater. Soil screening in the field, and soil analysis for PCBs using EPA Method 3540C. During the investigation, selected soil samples were also analyzed for extractable total petroleum hydrocarbons (ETPH) and poly aromatic hydrocarbons (PAH) by EPA Method 8270 and total 8 Resource Conservation and Recovery Act (RCRA) metals. The soil samples selected for additional analyses were selected based on field screening results and visual appearance of soils.

The borings were advanced with a truck mounted Geoprobe. Each boring was backfilled with sand and native soil materials and finished at the surface with asphalt upon completion.

4.0 SOIL SAMPLING

Twenty three soil borings were advanced using truck mounted geoprobe on January 24 and 25, 2008. Soil at each location was screened continuously from the surface to saturated groundwater with a calibrated PID equipped with a 11.7 eV lamp. Soil staining was observed at B101, B105, B107, B108, B109, B112, B123, B124, an B125. Soil staining was most pronounced immediately above the saturated groundwater zone at 7-8 feet. However, some shallower soil staining was also observed. Slightly elevated PID recordings were recorded in these locations.

Soil samples were collected and preserved in the field in accordance with the DEP's soil sample preservation guidelines dated March 2006 and submitted to the laboratory for PCB analysis by EPA Method 3540C. After soil sample collection, each sample was stored on ice in a cooler. After soil sampling was completed, the soil samples were transferred under Chain of Custody and stored in a sample refrigerator until transported to the laboratory for analysis. All soil samples were analyzed using the DEP's Reasonable Confidence Protocols (RCPs).

Soil sampling and monitoring well locations are presented on Figure 2 and soil analytical results are presented in Table 1.

5.0 SOIL SAMPLING RESULTS

PCBs were detected in soil collected at B101 (4-6 fbg)(34.8 µg/kg), B102 (5-6 fbg)(12 µg/kg), and B112 (8-9 fbg).(55,100 µg/kg). PCBs were below the residential Direct Exposure Criteria (res-DEC)(1,000 µg/kg) at B101 and B102, but above the res-DEC at B112. PCBs at B112 (55,100 µg/kg) were also above the threshold triggering the Toxic Substances Control Act (TSCA) self implementing work plan and remediation guidelines (50,000 µg/kg) contained in 40 CFR Part 761. As a result, remediation of the release will require EPA review and approval of the remedial work plan.

ETPH impacted soils were also identified at B101 (4-6 fbg), B102 (6-8 fbg), B105 (305 fbg), B107 (6-6.5 fbg), B108 (6-6.5 fbg), B109 (6-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B120 (5-6 fbg), B121, B122 (4-6 fbg), B123 (4-11 fbg), B124 (6-7 fbg), and B125 (7-8 fbg). ETPH exceeded the res-DEC at B101 (4-6 fbg), B105 (3-4 fbg), B107 (6-6.5 fbg), B108 (6-6.6 fbg), B109 (7-7 fbg), B109 (8-9 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), B123 (10-11 fbg), and B125 (7-8 fbg). ETPH exceeded the industrial/commercial Direct Exposure Criteria (IC DEC) and GB Pollutant Mobility Criteria (GB PMC) at B105 (3-4 fbg), B112 (8-9 fbg), B123 (4.5-5.5 fbg), and B-124 (6-7 fbg).

Low levels of metals including arsenic, barium, chromium, mercury, and lead were detected in some samples at concentrations that are below the res-DEC. Metals may be partly attributable to fill constituents, but may also represent background concentrations at the concentrations that were detected.

6.0 DATA REVIEW

SECOR reviewed the data package provided by the laboratory for each sample lot. The data review was intended to ensure that the data meet data quality objectives set by the DEP in guidance documents including the use of RCPs and soil preservation techniques outlined in the DEP guidance document dated March 6, 2006. Our data review also included a review of laboratory duplicates, matrix spike samples, and the RCP narrative.

- No significant data quality issues were identified during the review. The laboratory reported that the data meet the RCP protocols for each set of samples submitted for analysis.

- In addition, no significant deviations in analytical methods, sampling handling, or chain of custody were identified.

7.0 CONCLUSIONS

The data suggest that ETPH exceeds the res-DEC in many locations across the site. ETPH appears to be a constituent of fill materials. Potential response actions may include soil excavation combined with the use of an Environmental Land Use Restriction to render some soils inaccessible and environmentally isolated.

Additional soil characterization is required under 40 CFR Part 761.265 using a three meter sampling grid in each PCB detection area. The sampling protocol must meet the sampling frequency for each release area of at least 3 samples and provide coverage in all directions to adequately characterize each area as outlined in 40 CFR Part 761.283.

Additional soil sampling is also required under the Transfer Act and Remediation Standard Regulations (RSRs) to characterize the extent of ETPH in soils.

Table 1
Additional Soil Characterization
Soil Analytical Results
78-88 Rebecchi Drive
North Haven, Connecticut

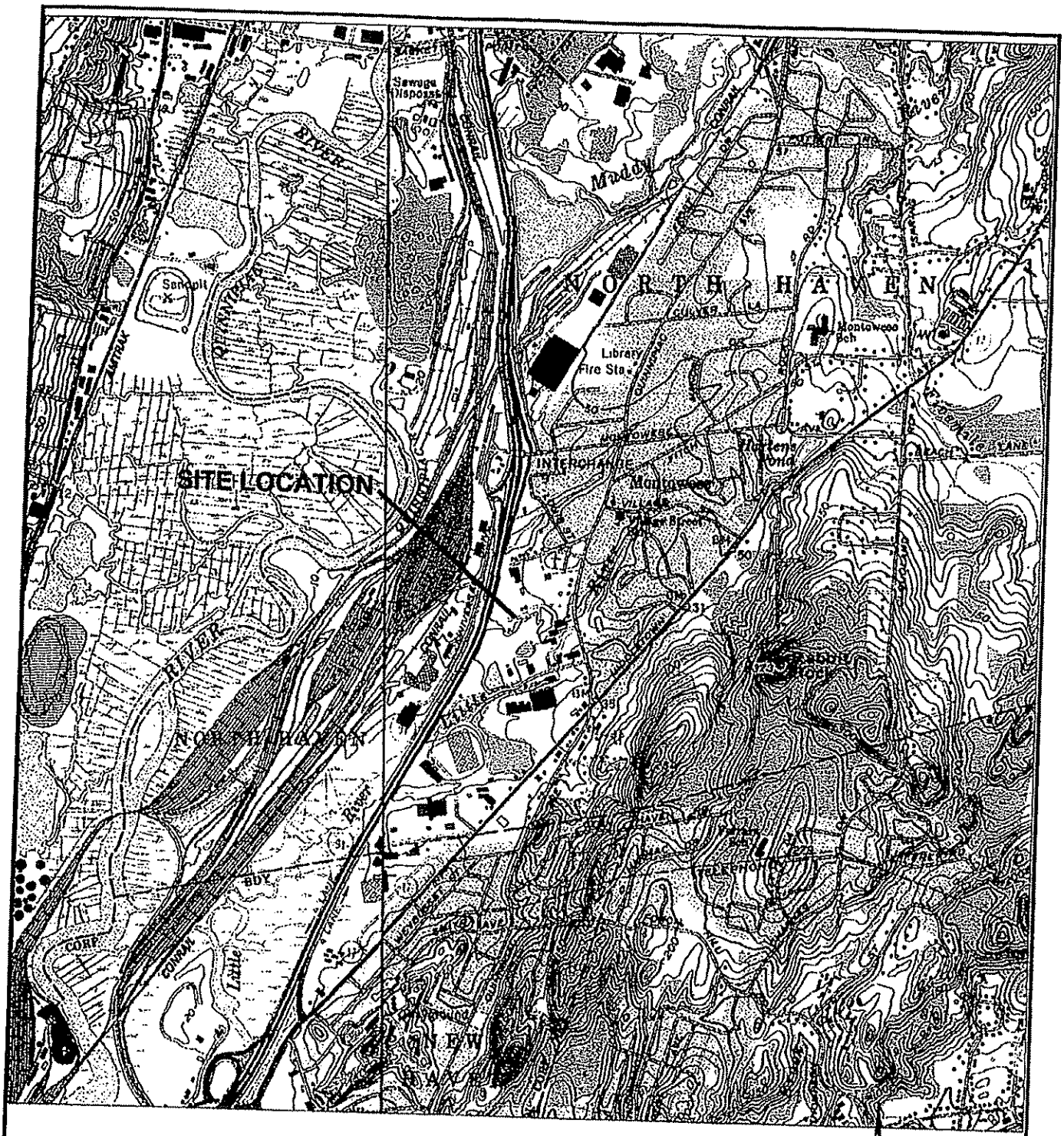
Boring I.D. Laboratory I.D. Sample Date Sample Depth	RES DEC	I/C DEC	GA/GAA PMC	GB PMC	B101 (4-6) SA73824-01 1/24/2008 4-6	B102 (5-6) SA73824-02 1/24/2008 5-6	DUP SA73824-03 1/24/2008 5-6	B103 (3-4) SA73824-04 1/24/2008 3-4	B104 (3-4) SA73824-05 1/24/2008 3-4	B105 (3-4) SA73824-06 1/24/2008 3-4	B106 (3-4) SA73824-07 1/24/2008 3-4	B107 (1-2) SA73824-29 1/24/2008 1-2	B107 (6-6.5) SA73824-08 1/24/2008 6-6.5	B108 (6-6.5) SA73824-09 1/24/2008 6-6.5	B109 (6-7) SA73824-12 1/24/2008 6-7	B109 (8-9) SA73824-30 1/24/2008 8-9	B110 (6-7) SA73824-10 1/24/2008 6-7	B111 (6-7) SA73824-11 1/24/2008 6-7	B112 (6-7) SA73824-13 1/24/2008 6-7	B112 (8-9) SA73824-31 1/24/2008 8-9	B113 (6-6) SA73824-14 1/24/2008 6-6	B114 (6-6) SA73824-15 1/24/2008 6-6	B115 (5-6) SA73824-16 1/24/2008 5-6	B116 (6.5-7.5) SA73824-17 1/24/2008 6.5-7.5
Total Metals (mg/kg)																									
Silver	340	10,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	2	NA	<1.45	NA	NA	NA	NA	NA	<1.54	NA	1.81	NA	NA
Arsenic	10	10	NE	NE	NA	NA	NA	NA	NA	NA	NA	1.6	NA	1.95	NA	NA	NA	NA	NA	2.68	NA	<1.53	NA	NA
Barium	4,700	140,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	19.3	NA	90.1	NA	NA	NA	NA	NA	88.5	NA	22.9	NA	NA
Cadmium	34	1,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	<0.529	NA	<0.484	NA	NA	NA	NA	NA	0.711	NA	<0.51	NA	NA
Chromium	100*	100*	NE	NE	NA	NA	NA	NA	NA	NA	NA	2.05	NA	8.58	NA	NA	NA	NA	NA	20.8	NA	1.44	NA	NA
Mercury	20	610	NE	NE	NA	NA	NA	NA	NA	NA	NA	<0.026	NA	0.0748	NA	NA	NA	NA	NA	0.135	NA	<0.0096	NA	NA
Selenium	340	10,000	NE	NE	NA	NA	NA	NA	NA	NA	NA	2.22	NA	50.4	NA	NA	NA	NA	NA	310	NA	2.6	NA	NA
SVOC (ug/kg)												<1.00	NA	<1.45	NA	NA	NA	NA	NA	<1.54	NA	<1.53	NA	NA
Acenaphthene	1,000,000	2,500,000	8,400	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3330	NA	NA	NA	NA	NA	7840	NA	<147	NA	NA
Acenaphthylene	1,000,000	2,500,000	8,400	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	<301	NA	NA	NA	NA	NA	1240	NA	<147	NA	NA
Anthracene	1,000,000	2,500,000	40,000	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	4830	NA	NA	NA	NA	NA	11000	NA	<147	NA	NA
Benzo (a) anthracene	1,000	7,800	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8360	NA	NA	NA	NA	NA	18700	NA	<147	NA	NA
Benzo (a) Pyrene	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	7390	NA	NA	NA	NA	NA	16400	NA	<147	NA	NA
Benzo (b) fluoranthene	1,000	7,800	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	6060	NA	NA	NA	NA	NA	11500	NA	<147	NA	NA
Benzo (g,h,i) perylene	1,000,000	2,500,000	4,200	42,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	4810	NA	NA	NA	NA	NA	9250	NA	<147	NA	NA
Benzo (k) fluoranthene	8,400	78,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	6350	NA	NA	NA	NA	NA	13400	NA	<147	NA	NA
Chrysene	84,000	780,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	7960	NA	NA	NA	NA	NA	18600	NA	<147	NA	NA
Dibenzo (a,h) anthracene	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	1410	NA	NA	NA	NA	NA	3090	NA	<147	NA	NA
Fluoranthene	1,000,000	2,500,000	5,600	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	13300	NA	NA	NA	NA	NA	40100	NA	<147	NA	NA
Fluorene	1,000,000	2,500,000	5,600	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3560	NA	NA	NA	NA	NA	10900	NA	<147	NA	NA
Indeno (1,2,3-cd) pyrene	7,000	7,800	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	4370	NA	NA	NA	NA	NA	8760	NA	<147	NA	NA
1-Methylnaphthalene	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	743	NA	NA	NA	NA	NA	4630	NA	<147	NA	NA
2-Methylnaphthalene	474,000	2,500,000	980	9,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	583	NA	NA	NA	NA	NA	1870	NA	<147	NA	NA
Naphthalene	1,000,000	2,500,000	5,600	56,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	1530	NA	NA	NA	NA	NA	1530	NA	<147	NA	NA
Phenanthrene	1,000,000	2,500,000	4,000	40,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	23400	NA	NA	NA	NA	NA	43000	NA	<147	NA	NA
Pyrene	1,000,000	2,500,000	4,000	40,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	29400	NA	NA	NA	NA	NA	57100	NA	<147	NA	NA
Polychlorinated Biphenyls (mg/kg)																									
PCB	1	10	NE	NE	0.0348	0.012	0.0378	<0.0298	<0.0305	<0.033	<0.0305	NA	<0.0337	<0.0319	<0.0311	<0.0339	<0.0312	<0.0318	<0.0304	54.1	<0.0308	<0.0313	<0.0308	<0.0316
Extractable Total Petroleum Hydrocarbons (mg/kg)																									
CT ETPH	500	2,500	500	2,500	1820	169	77.3	<24.5	<25.2	4892	<26.1	NA	1590	579	572	1940	<25.3	<26.2	78.3	10300	<25.8	<25.9	<25.6	<26.2

Notes:
ug/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
GA/GAA PMC - Class GA/GAA Pollutant Mobility Criteria
GB PMC - Class GB Pollutant Mobility Criteria
Bold indicate an exceedance of one or more criteria.
*Criteria is for hexavalent chromium
DUP is a duplicate sample collected from B102 (5-6)

Table 1
Additional Soil Characterization
Soil Analytical Results
78-82 Rebeschi Drive
North Haven, Connecticut

Boring I.D. Laboratory I.D. Sample Date Sample Depth	RES DEC	I/C DEC	GA/GAA PMC	GB PMC	B117 (5-6) SA73824-19 1/24/2008 5-6	B118 (5-6) SA73824-20 1/25/2008 5-6	B119 (4.5-6) SA73824-21 1/25/2008 4.5-6	B120 (5-6) SA73824-22 1/25/2008 5-6	B121 (5-6.5) SA73824-23 1/25/2008 5-6.5	B122 (5-6) SA73824-24 1/25/2008 5-6	B122 (7-8) SA73824-32 1/25/2008 7-8	B123 (4.5-5.5) SA73824-25 1/25/2008 4.5-5.5	B123 (10-11) SA73824-33 1/25/2008 10-11	B124 (6-7) SA73824-26 1/25/2008 6-7	B125 (4-5.5) SA73824-27 1/25/2008 4-5.5	B125 (7-8) SA73824-34 1/25/2008 7-8
Total Metals (mg/kg)																
Silver	340	10,000	NE	NE	NA	NA	<1.42	<1.44	NA	NA	NA	NA	NA	NA	NA	<1.55
Arsenic	10	10	NE	NE	NA	NA	<1.42	<1.44	NA	NA	NA	NA	NA	NA	NA	4.78
Barium	4,700	140,000	NE	NE	NA	NA	77.5	68.9	NA	NA	NA	NA	NA	NA	NA	62.8
Cadmium	34	1,000	NE	NE	NA	NA	<0.473	<0.479	NA	NA	NA	NA	NA	NA	NA	<0.516
Chromium	100*	100*	NE	NE	NA	NA	10.5	17.7	NA	NA	NA	NA	NA	NA	NA	10.8
Mercury	20	610	NE	NE	NA	NA	<0.0293	<0.0297	NA	NA	NA	NA	NA	NA	NA	<0.288
Lead	400	1,000	NE	NE	NA	NA	7.65	12.1	NA	NA	NA	NA	NA	NA	NA	78.9
Selenium	340	10,000	NE	NE	NA	NA	<1.42	<1.44	NA	NA	NA	NA	NA	NA	NA	<1.55
SVOC (ug/kg)																
Acenaphthene	1,000,000	2,500,000	8,400	84,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	5200
Acenaphthylene	1,000,000	2,500,000	8,400	84,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	4770
Anthracene	1,000,000	2,500,000	40,000	400,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	9750
Benzo (a) anthracene	1,000	7,800	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	8340
Benzo (a) pyrene	1,000	1,000	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	7090
Benzo (b) fluoranthene	1,000	7,800	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	6990
Benzo (g,h,i) perylene	1,000,000	2,500,000	4,700	47,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	4440
Benzo (k) fluoranthene	8,400	78,000	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	6130
Chrysene	84,000	780,000	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	1340
Dibenzo (a,h) anthracene	1,000	1,000	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	52300
Fluoranthene	1,000,000	2,500,000	5,600	56,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	11400
Fluorene	1,000,000	2,500,000	5,600	56,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	4000
Indeno (1,2,3-cd) pyrene	1,000	7,800	1,000	1,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	7130
1-Methylnaphthalene	NE	NE	NE	NE	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	7400
2-Methylnaphthalene	474,000	2,500,000	950	9,800	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	19200
Naphthalene	1,000,000	2,500,000	5,600	56,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	33500
Phenanthrene	1,000,000	2,500,000	4,000	40,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	16300
Pyrene	1,000,000	2,500,000	4,000	40,000	NA	NA	<148	<298	NA	NA	NA	NA	NA	NA	NA	14200
Polychlorinated Biphenyls (mg/kg)																
PCB	1	10	NE	NE	<0.0301	<0.0305	<0.0309	<0.0315	<0.0322	<0.0296	<0.0333	<0.0306	<0.0373	<0.0332	<0.0302	<0.0343
Extractable Total Petroleum																
C7-C15	500	2,500	500	2,500	<28.4	<28	<29.6	251	177	266	<30.2	18500	647	4130	343	1620

Notes:
ug/kg - micrograms per kilogram mg/kg - milligrams per kilogram
NA - Not analyzed NE - No Established Criteria or not applicable
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
GA/GAA PMC - Class GA/GAA Pollutant Mobility Criteria
GB PMC - Class GB Pollutant Mobility Criteria
Bold indicate an exceedance of one or more criteria.
*Criteria is for hexavalent chromium
DUP is a duplicate sample collected from B102 (5-6)



SOURCES:
USGS 7.5 MINUTE TOPOGRAPHIC MAPS–
NEW HAVEN, CT AND BRANFORD, CT QUADRANGLES

QUADRANGLE LOCATIONS

0 2000 4000

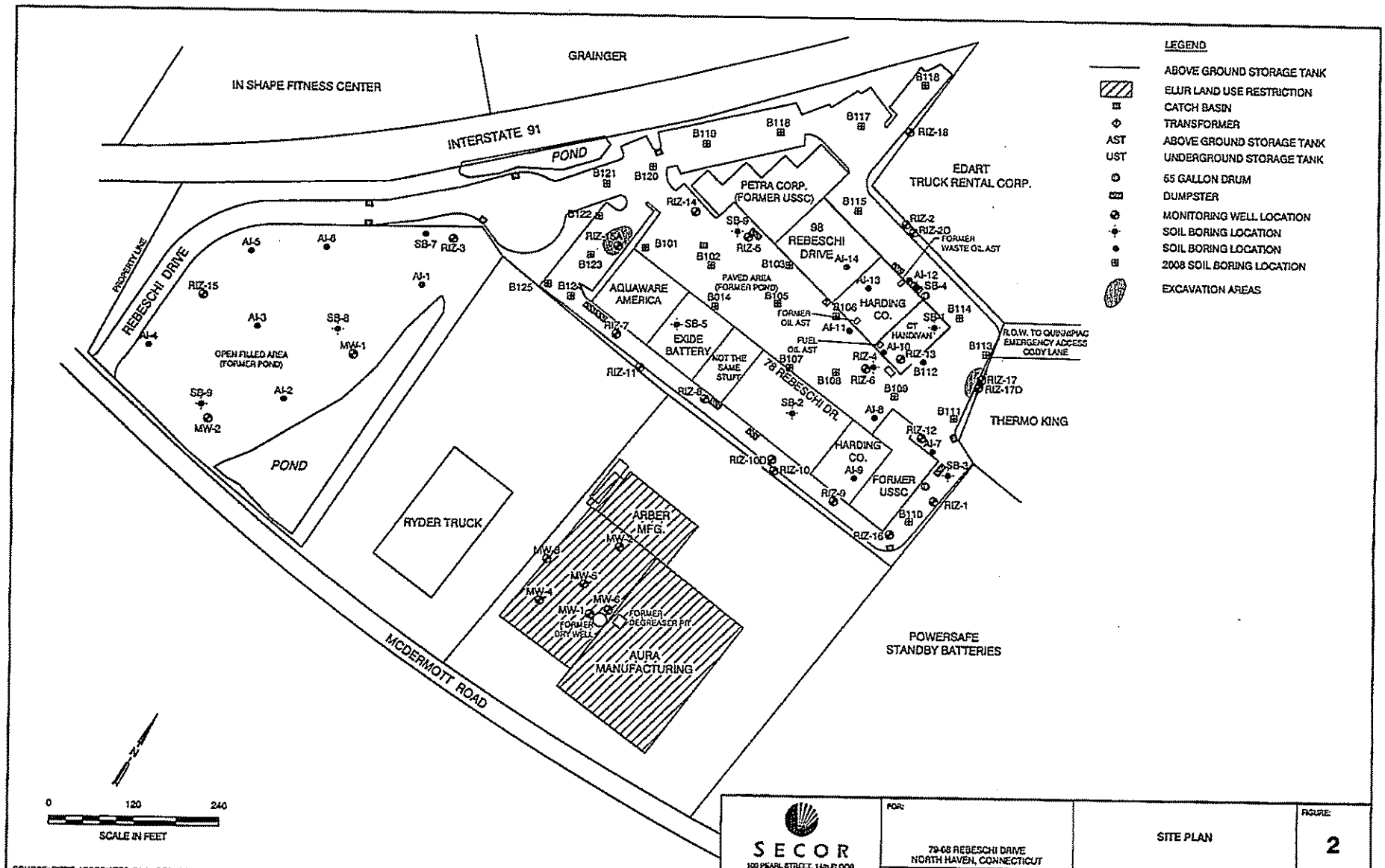
APPROXIMATE SCALE (FEET)

N

SECOR
100 PEARL STREET, 14TH FLOOR
HARTFORD, CONNECTICUT 06103
PHONE (860) 249-7034 FAX (860) 249-7037

PREPARED FOR:				FIGURE:
78-98 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT		SITE LOCATION MAP		1
JOB NUMBER: 63OT.01297.08.0001	DRAWN BY: KM	CHECKED BY: AT	APPROVED BY: AT	DATE: 02/13/08

63OT-01297-SLM



SOURCE: RIZZO ASSOCIATES; 78-86 REBESCHI DRIVE NORTH HAVEN, CONNECTICUT, FILE NAME: 6681P-GW02.DWG, DATE: 09/15/05

SECOR
100 PEARL STREET, 14th FLOOR
HARTFORD, CONNECTICUT
PHONE: (860) 249-7004/243-7037 (FAX)

FOR:
78-86 REBESCHI DRIVE
NORTH HAVEN, CONNECTICUT

SITE PLAN

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
63OT-01297.05.0001	JOJ	AT	AT	02/07/06

DRIVE, NORTH HAVEN,CT

63OT-01297-SM

C

Certification **August 3, 2010**

Ms. Kimberley N. Tisa
PCB Coordinator/Environmental Scientist
Office of Site Remediation and Restoration
US EPA Region 1
1 Congress Street, Suite 1100 (CPT)
Boston, MA 02114-2023

Dear Ms. Tisa:

As required by 40 CFR Part 761.61 (a)(3)(E), Andrew Dixon (the property owner) and WEI North Haven Limited Partnership (the responsible party) are pleased to provide the following certification:

> *All sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at:*
>
> **Stantec Consulting Services, Inc.**
> **20 Church Street**
> **Hartford, Connecticut 06103**
>
> *and are available for EPA inspection. All analytical methods used for site characterization meet EPA extraction and analytical methodologies.*

The following parties certify that the foregoing is accurate and true on this 3rd Day of August 2010.

8/3/10

Andrew Dixon Date
Property Owner

WEI North Haven Limited Partnership

By: Winstanley Enterprises, Inc.
Its General Partner

By: 8/3/10

Adam D. Winstanley Date
Its Treasurer

D

Report Date:
03-May-10 09:05

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Stantec Consulting Services
20 Church Street, Suite 1710
Hartford, CT 06103
Attn: John Insall

Project: 78-98 Rebeschi Dr. - North Haven, CT
Project #: [none]

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB11046-01	RIZ-6	Ground Water	21-Apr-10 13:05	23-Apr-10 16:40
SB11046-02	RIZ-15A	Ground Water	21-Apr-10 16:45	23-Apr-10 16:40
SB11046-03	Dup-1	Ground Water	21-Apr-10 14:05	23-Apr-10 16:40
SB11046-04	RIZ-17	Ground Water	22-Apr-10 16:25	23-Apr-10 16:40
SB11046-05	Trip Blank	Deionized Water	22-Apr-10 00:00	23-Apr-10 16:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 35 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The samples were received 2.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260B

Calibration:

1004048

Analyte quantified by quadratic equation type calibration.

Bromoform

This affected the following samples:

1009099-BLK1
1009099-BS1
1009099-BSD1
Dup-1
RIZ-17
RIZ-6
S003796-CCV1

Spikes:

1008989-MS1 *Source: SB11046-02*

SW846 8260B

Spikes:

1008989-MS1 *Source: SB11046-02*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1,2,2-Tetrachloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
2-Chlorotoluene
4-Chlorotoluene
4-Isopropyltoluene
Bromomethane
Chloromethane
Hexachlorobutadiene
Isopropylbenzene
n-Butylbenzene
n-Propylbenzene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene

1008989-MSD1 *Source: SB11046-02*

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Chloroethane

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1,2,2-Tetrachloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
4-Chlorotoluene
4-Isopropyltoluene
Bromomethane
Hexachlorobutadiene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene

Samples:

S003767-CCV1

SW846 8260B

Samples:

S003767-CCV1

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

Chloromethane (-20.5%)

This affected the following samples:

1008989-BLK1
1008989-BS1
1008989-BSD1
1008989-MS1
1008989-MSD1
RIZ-15A
Trip Blank

S003796-CCV1

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

1,1,1,2-Tetrachloroethane (26.4%)
Dibromochloromethane (27.1%)
Naphthalene (20.7%)
trans-1,4-Dichloro-2-butene (20.6%)
Vinyl chloride (-29.3%)

This affected the following samples:

1009099-BLK1
1009099-BS1
1009099-BSD1
Dup-1
RIZ-17
RIZ-6

SB11046-01 *RIZ-6*

The Reporting Limits for this analysis are elevated due to sample foaming.

SB11046-02 *RIZ-15A*

This sample was not able to be analyzed for client requested reporting limits due to high concentrations of target analytes in the sample.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-6 SB11046-01	[none]	Ground Water	21-Apr-10 13:05	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS			R04									
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	5.0	5	SW846 8260B	30-Apr-10	30-Apr-10	JLG	1009099	X
67-64-1	Acetone	BRL		µg/l	50.0	5	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	2.5	5	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	2.5	5	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	5.0	5	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	10.0	5	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/l	10.0	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	10.0	5	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	10.0	5	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	5.0	5	"	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	5.0	5	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	10.0	5	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	2.5	5	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	2.5	5	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	10.0	5	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	5.0	5	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	2.5	5	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	2.5	5	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	2.5	5	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	50.0	5	"	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-6 SB11046-01	[none]	Ground Water	21-Apr-10 13:05	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS			R04									
99-87-6	4-Isopropyltoluene	BRL		µg/l	5.0	5	SW846 8260B	30-Apr-10	30-Apr-10	JLG	1009099	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	50.0	5	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	10.0	5	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	5.0	5	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/l	5.0	5	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	2.5	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	5.0	5	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	10.0	5	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	5.0	5	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	5	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	50.0	5	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	100	5	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	25.0	5	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	2000	5	"	"	"	"	"	X
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*86*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*104*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
12674-11-2	Aroclor-1016	BRL		µg/l	0.208	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
11104-28-2	Aroclor-1221	BRL		µg/l	0.208	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/l	0.208	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-6 SB11046-01	[none]	Ground Water	21-Apr-10 13:05	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
53469-21-9	Aroclor-1242	BRL		µg/l	0.208	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
12672-29-6	Aroclor-1248	BRL		µg/l	0.208	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/l	0.208	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/l	0.208	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/l	0.208	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/l	0.208	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*52*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*56*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*67*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*58*			*30-150 %*		"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-15A SB11046-02	[none]	Ground Water	21-Apr-10 16:45	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS			GS									
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	5.0	5	SW846 8260B	29-Apr-10	29-Apr-10	JLG	1008989	X
67-64-1	Acetone	BRL		µg/l	50.0	5	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	2.5	5	"	"	"	"	"	X
71-43-2	Benzene	190	✓	µg/l	5.0	5	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	2.5	5	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	5.0	5	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	10.0	5	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	50.0	5	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/l	10.0	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	10.0	5	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	5.0	5	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	10.0	5	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	5.0	5	"	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	5.0	5	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	10.0	5	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	2.5	5	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	2.5	5	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	10.0	5	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	5.0	5	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	2.5	5	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	2.5	5	"	"	"	"	"	X
100-41-4	Ethylbenzene	42.0	✓	µg/l	5.0	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	2.5	5	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	50.0	5	"	"	"	"	"	X
98-82-8	Isopropylbenzene	9.0	✓	µg/l	5.0	5	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-15A	[none]	Ground Water	21-Apr-10 16:45	23-Apr-10
SB11046-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
	Volatile Organic Compounds Prepared by method SW846 5030 Water MS		GS									
99-87-6	4-Isopropyltoluene	6.2		µg/l	5.0	5	SW846 8260B	29-Apr-10	29-Apr-10	JLG	1008989	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	50.0	5	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	10.0	5	"	"	"	"	"	X
91-20-3	Naphthalene	450		µg/l	5.0	5	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
100-42-5	Styrene	26.9		µg/l	5.0	5	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	2.5	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-88-3	Toluene	31.0		µg/l	5.0	5	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	5.0	5	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	5.0	5	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	5.0	5	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	5.0	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	47.6		µg/l	5.0	5	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	17.7		µg/l	5.0	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	5.0	5	"	"	"	"	"	X
179601-23-1	m,p-Xylene	99.0		µg/l	10.0	5	"	"	"	"	"	X
95-47-6	o-Xylene	46.1		µg/l	5.0	5	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	5	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	5.0	5	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	50.0	5	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	100	5	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	25.0	5	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	2000	5	"	"	"	"	"	X
	Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
	Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C											
12674-11-2	Aroclor-1016	BRL		µg/l	0.206	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
11104-28-2	Aroclor-1221	BRL		µg/l	0.206	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/l	0.206	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-15A SB11046-02	[none]	Ground Water	21-Apr-10 16:45	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
53469-21-9	Aroclor-1242	BRL		µg/l	0.206	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
12672-29-6	Aroclor-1248	BRL		µg/l	0.206	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/l	0.206	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/l	0.206	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/l	0.206	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/l	0.206	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*86*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*63*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*51*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*46*			*30-150 %*		"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Dup-1 SB11046-03	[none]	Ground Water	21-Apr-10 14:05	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	30-Apr-10	30-Apr-10	JLG	1009099	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/l	2.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Dup-1	[none]	Ground Water	21-Apr-10 14:05	23-Apr-10
SB11046-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS												
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	SW846 8260B	30-Apr-10	30-Apr-10	JLG	1009099	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	2.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/l	1.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	2.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	"	X
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*89*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*104*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*109*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
12674-11-2	Aroclor-1016	BRL		µg/l	0.211	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
11104-28-2	Aroclor-1221	BRL		µg/l	0.211	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/l	0.211	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Dup-1 SB11046-03	[none]	Ground Water	21-Apr-10 14:05	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
53469-21-9	Aroclor-1242	BRL		µg/l	0.211	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
12672-29-6	Aroclor-1248	BRL		µg/l	0.211	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/l	0.211	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/l	0.211	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/l	0.211	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/l	0.211	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*83*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*73*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*64*			*30-150 %*		"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-17	[none]	Ground Water	22-Apr-10 16:25	23-Apr-10
SB11046-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	30-Apr-10	30-Apr-10	JLG	1009099	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/l	2.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-17 SB11046-04	[none]	Ground Water	22-Apr-10 16:25	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS												
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	SW846 8260B	30-Apr-10	30-Apr-10	JLG	1009099	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	2.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/l	1.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	2.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	"	X
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*90*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*		"	"	"	"	"	
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
12674-11-2	Aroclor-1016	BRL		µg/l	0.206	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
11104-28-2	Aroclor-1221	BRL		µg/l	0.206	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/l	0.206	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
RIZ-17 SB11046-04	[none]	Ground Water	22-Apr-10 16:25	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082 Prepared by method SW846 3510C												
53469-21-9	Aroclor-1242	BRL		µg/l	0.206	1	SW846 8082	27-Apr-10	28-Apr-10	IMR	1008734	X
12672-29-6	Aroclor-1248	BRL		µg/l	0.206	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/l	0.206	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/l	0.206	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/l	0.206	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/l	0.206	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*79*			*30-150 %*		"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*66*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*68*			*30-150 %*		"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*59*			*30-150 %*		"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SB11046-05	[none]	Deionized Water	22-Apr-10 00:00	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	29-Apr-10	29-Apr-10	JLG	1008989	X
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
74-97-5	Bromochloromethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
75-25-2	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	BRL		µg/l	2.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	X
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SB11046-05	[none]	Deionized Water	22-Apr-10 00:00	23-Apr-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds												
Volatile Organic Compounds Prepared by method SW846 5030 Water MS												
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	SW846 8260B	29-Apr-10	29-Apr-10	JLG	1008989	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	BRL		µg/l	2.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
100-42-5	Styrene	BRL		µg/l	1.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	BRL		µg/l	2.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
108-20-3	Di-Isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	"	X
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	"	X
Surrogate recoveries:												
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*		"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*		"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*			*70-130 %*		"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*		"	"	"	"	"	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
Blank (1008989-BLK1)					Prepared & Analyzed: 29-Apr-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	2.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	2.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
Blank (1008989-BLK1)						Prepared & Analyzed: 29-Apr-10				
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	2.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.0*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*51.0*		µg/l		*50.0*		*102*	*70-130*		
LCS (1008989-BS1)						Prepared & Analyzed: 29-Apr-10				
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.6		µg/l		20.0		93	70-130		
Acetone	20.0		µg/l		20.0		100	53.2-137		
Acrylonitrile	19.1		µg/l		20.0		96	70-130		
Benzene	19.6		µg/l		20.0		98	70-130		
Bromobenzene	19.5		µg/l		20.0		97	70-130		
Bromochloromethane	20.5		µg/l		20.0		102	70-130		
Bromodichloromethane	20.3		µg/l		20.0		101	70-130		
Bromoform	22.0		µg/l		20.0		110	70-130		
Bromomethane	20.6		µg/l		20.0		103	48.9-147		
2-Butanone (MEK)	18.1		µg/l		20.0		90	70-139		
n-Butylbenzene	20.5		µg/l		20.0		102	70-130		
sec-Butylbenzene	21.9		µg/l		20.0		110	70-130		
tert-Butylbenzene	22.4		µg/l		20.0		112	70-130		
Carbon disulfide	18.2		µg/l		20.0		91	70-130		
Carbon tetrachloride	21.8		µg/l		20.0		109	70-130		
Chlorobenzene	18.8		µg/l		20.0		94	70-130		
Chloroethane	17.4		µg/l		20.0		87	65.6-130		
Chloroform	22.2		µg/l		20.0		111	70-130		
Chloromethane	17.0		µg/l		20.0		85	70-130		
2-Chlorotoluene	20.5		µg/l		20.0		102	70-130		
4-Chlorotoluene	20.5		µg/l		20.0		103	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
LCS (1008989-BS1)					Prepared & Analyzed: 20-Apr-10					
1,2-Dibromo-3-chloropropane	17.9		µg/l		20.0		89	70-130		
Dibromochloromethane	21.5		µg/l		20.0		108	52.9-130		
1,2-Dibromoethane (EDB)	19.9		µg/l		20.0		99	70-130		
Dibromomethane	18.4		µg/l		20.0		92	70-130		
1,2-Dichlorobenzene	19.4		µg/l		20.0		97	70-130		
1,3-Dichlorobenzene	20.3		µg/l		20.0		102	70-130		
1,4-Dichlorobenzene	18.2		µg/l		20.0		91	70-130		
Dichlorodifluoromethane (Freon12)	18.2		µg/l		20.0		91	63.1-130		
1,1-Dichloroethane	19.4		µg/l		20.0		97	70-130		
1,2-Dichloroethane	19.2		µg/l		20.0		96	70-130		
1,1-Dichloroethene	18.2		µg/l		20.0		91	70-130		
cis-1,2-Dichloroethene	20.2		µg/l		20.0		101	70-130		
trans-1,2-Dichloroethene	18.4		µg/l		20.0		92	70-130		
1,2-Dichloropropane	19.1		µg/l		20.0		95	70-130		
1,3-Dichloropropane	18.5		µg/l		20.0		93	70-130		
2,2-Dichloropropane	19.1		µg/l		20.0		96	70-130		
1,1-Dichloropropene	20.2		µg/l		20.0		101	70-130		
cis-1,3-Dichloropropene	20.7		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	21.4		µg/l		20.0		107	70-130		
Ethylbenzene	20.5		µg/l		20.0		102	70-130		
Hexachlorobutadiene	20.6		µg/l		20.0		103	70-130		
2-Hexanone (MBK)	22.1		µg/l		20.0		111	70-130		
Isopropylbenzene	20.6		µg/l		20.0		103	70-130		
4-Isopropyltoluene	20.6		µg/l		20.0		103	70-130		
Methyl tert-butyl ether	20.0		µg/l		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	21.0		µg/l		20.0		105	61-130		
Methylene chloride	18.1		µg/l		20.0		90	70-130		
Naphthalene	22.9		µg/l		20.0		114	70-130		
n-Propylbenzene	20.7		µg/l		20.0		104	70-130		
Styrene	21.9		µg/l		20.0		109	70-130		
1,1,1,2-Tetrachloroethane	20.6		µg/l		20.0		103	70-130		
1,1,2,2-Tetrachloroethane	20.6		µg/l		20.0		103	70-130		
Tetrachloroethene	20.0		µg/l		20.0		100	70-130		
Toluene	19.1		µg/l		20.0		96	70-130		
1,2,3-Trichlorobenzene	20.9		µg/l		20.0		105	70-130		
1,2,4-Trichlorobenzene	20.9		µg/l		20.0		105	70-130		
1,3,5-Trichlorobenzene	19.7		µg/l		20.0		99	70-130		
1,1,1-Trichloroethane	20.4		µg/l		20.0		102	70-130		
1,1,2-Trichloroethane	19.3		µg/l		20.0		96	70-130		
Trichloroethene	18.8		µg/l		20.0		94	70-130		
Trichlorofluoromethane (Freon 11)	18.9		µg/l		20.0		95	60-172		
1,2,3-Trichloropropane	18.5		µg/l		20.0		93	70-130		
1,2,4-Trimethylbenzene	22.4		µg/l		20.0		112	70-130		
1,3,5-Trimethylbenzene	22.3		µg/l		20.0		111	70-130		
Vinyl chloride	17.6		µg/l		20.0		88	70-130		
m,p-Xylene	42.4		µg/l		40.0		106	70-130		
o-Xylene	21.5		µg/l		20.0		108	70-130		
Tetrahydrofuran	20.7		µg/l		20.0		104	70-130		
Ethyl ether	18.8		µg/l		20.0		94	70-130		
Tert-amyl methyl ether	20.5		µg/l		20.0		102	70-130		
Ethyl tert-butyl ether	21.1		µg/l		20.0		105	70-130		
Di-isopropyl ether	20.8		µg/l		20.0		104	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
LCS (1008989-BS1)					Prepared & Analyzed: 29-Apr-10					
Tert-Butanol / butyl alcohol	168		µg/l		200		84	70-130		
1,4-Dioxane	220		µg/l		200		110	54.2-130		
trans-1,4-Dichloro-2-butene	17.2		µg/l		20.0		86	70-130		
Ethanol	375		µg/l		400		94	70-130		
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*50.5*		µg/l		*50.0*		*101*	*70-130*		
LCS Dup (1008989-BSD1)					Prepared & Analyzed: 29-Apr-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.6		µg/l		20.0		88	70-130	6	25
Acetone	20.2		µg/l		20.0		101	53.2-137	1	50
Acrylonitrile	18.8		µg/l		20.0		94	70-130	2	25
Benzene	18.5		µg/l		20.0		92	70-130	6	25
Bromobenzene	20.6		µg/l		20.0		103	70-130	6	25
Bromochloromethane	20.7		µg/l		20.0		104	70-130	1	25
Bromodichloromethane	20.0		µg/l		20.0		100	70-130	2	25
Bromoform	23.4		µg/l		20.0		117	70-130	6	25
Bromomethane	20.1		µg/l		20.0		100	48.9-147	3	50
2-Butanone (MEK)	18.2		µg/l		20.0		91	70-139	0.9	50
n-Butylbenzene	18.0		µg/l		20.0		90	70-130	13	25
sec-Butylbenzene	21.5		µg/l		20.0		108	70-130	2	25
tert-Butylbenzene	22.7		µg/l		20.0		114	70-130	2	25
Carbon disulfide	16.7		µg/l		20.0		84	70-130	9	25
Carbon tetrachloride	20.2		µg/l		20.0		101	70-130	7	25
Chlorobenzene	18.7		µg/l		20.0		94	70-130	0.2	25
Chloroethane	16.4		µg/l		20.0		82	65.6-130	6	50
Chloroform	20.9		µg/l		20.0		104	70-130	6	25
Chloromethane	14.9		µg/l		20.0		75	70-130	13	25
2-Chlorotoluene	20.0		µg/l		20.0		100	70-130	2	25
4-Chlorotoluene	20.0		µg/l		20.0		100	70-130	3	25
1,2-Dibromo-3-chloropropane	16.6		µg/l		20.0		83	70-130	7	25
Dibromochloromethane	21.0		µg/l		20.0		105	52.9-130	2	50
1,2-Dibromoethane (EDB)	19.7		µg/l		20.0		99	70-130	0.7	25
Dibromomethane	18.3		µg/l		20.0		91	70-130	0.8	25
1,2-Dichlorobenzene	18.6		µg/l		20.0		93	70-130	4	25
1,3-Dichlorobenzene	20.7		µg/l		20.0		104	70-130	2	25
1,4-Dichlorobenzene	17.4		µg/l		20.0		87	70-130	5	25
Dichlorodifluoromethane (Freon12)	16.8		µg/l		20.0		84	63.1-130	8	50
1,1-Dichloroethane	17.9		µg/l		20.0		90	70-130	8	25
1,2-Dichloroethane	17.8		µg/l		20.0		89	70-130	8	25
1,1-Dichloroethene	16.9		µg/l		20.0		85	70-130	7	25
cis-1,2-Dichloroethene	19.8		µg/l		20.0		99	70-130	2	25
trans-1,2-Dichloroethene	17.6		µg/l		20.0		88	70-130	5	25
1,2-Dichloropropane	17.5		µg/l		20.0		88	70-130	8	25
1,3-Dichloropropane	18.4		µg/l		20.0		92	70-130	0.3	25
2,2-Dichloropropane	17.6		µg/l		20.0		88	70-130	8	25
1,1-Dichloropropene	19.4		µg/l		20.0		97	70-130	4	25
cis-1,3-Dichloropropene	19.5		µg/l		20.0		97	70-130	8	25
trans-1,3-Dichloropropene	20.9		µg/l		20.0		105	70-130	2	25
Ethylbenzene	20.0		µg/l		20.0		100	70-130	2	25
Hexachlorobutadiene	19.4		µg/l		20.0		97	70-130	6	50

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
LCS Dup (1008989-BSD1)					Prepared & Analyzed: 29-Apr-10					
2-Hexanone (MBK)	20.3		µg/l		20.0		102	70-130	8	25
Isopropylbenzene	20.3		µg/l		20.0		102	70-130	2	25
4-Isopropyltoluene	18.8		µg/l		20.0		94	70-130	9	25
Methyl tert-butyl ether	19.9		µg/l		20.0		100	70-130	0.6	25
4-Methyl-2-pentanone (MIBK)	19.5		µg/l		20.0		98	61-130	7	50
Methylene chloride	17.1		µg/l		20.0		86	70-130	5	25
Naphthalene	21.6		µg/l		20.0		108	70-130	6	25
n-Propylbenzene	20.0		µg/l		20.0		100	70-130	3	25
Styrene	22.3		µg/l		20.0		111	70-130	2	25
1,1,1,2-Tetrachloroethane	21.2		µg/l		20.0		106	70-130	3	25
1,1,2,2-Tetrachloroethane	20.8		µg/l		20.0		104	70-130	0.9	25
Tetrachloroethene	19.7		µg/l		20.0		98	70-130	2	25
Toluene	18.1		µg/l		20.0		91	70-130	5	25
1,2,3-Trichlorobenzene	20.5		µg/l		20.0		103	70-130	2	25
1,2,4-Trichlorobenzene	20.3		µg/l		20.0		101	70-130	3	25
1,3,5-Trichlorobenzene	19.6		µg/l		20.0		98	70-130	0.5	25
1,1,1-Trichloroethane	19.6		µg/l		20.0		98	70-130	4	25
1,1,2-Trichloroethane	18.6		µg/l		20.0		93	70-130	4	25
Trichloroethene	17.5		µg/l		20.0		88	70-130	7	25
Trichlorofluoromethane (Freon 11)	17.6		µg/l		20.0		88	60-172	7	50
1,2,3-Trichloropropane	18.0		µg/l		20.0		90	70-130	3	25
1,2,4-Trimethylbenzene	22.2		µg/l		20.0		111	70-130	0.5	25
1,3,5-Trimethylbenzene	22.2		µg/l		20.0		111	70-130	0.2	25
Vinyl chloride	15.2		µg/l		20.0		76	70-130	15	25
m,p-Xylene	41.5		µg/l		40.0		104	70-130	2	25
o-Xylene	21.5		µg/l		20.0		108	70-130	0.09	25
Tetrahydrofuran	19.6		µg/l		20.0		98	70-130	6	25
Ethyl ether	18.4		µg/l		20.0		92	70-130	3	50
Tert-amyl methyl ether	19.3		µg/l		20.0		97	70-130	6	25
Ethyl tert-butyl ether	20.3		µg/l		20.0		101	70-130	4	25
Di-isopropyl ether	19.3		µg/l		20.0		96	70-130	8	25
Tert-Butanol / butyl alcohol	166		µg/l		200		83	70-130	2	25
1,4-Dioxane	216		µg/l		200		108	54.2-130	2	25
trans-1,4-Dichloro-2-butene	17.7		µg/l		20.0		88	70-130	2	25
Ethanol	365		µg/l		400		91	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*52.0*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.4*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Matrix Spike (1008989-MS1)			Source: SB11046-02		Prepared & Analyzed: 29-Apr-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.7		µg/l		20.0	BRL	118	70-130		
Acetone	17.2		µg/l		20.0	BRL	86	70-130		
Acrylonitrile	18.0		µg/l		20.0	BRL	90	70-130		
Benzene	54.9		µg/l		20.0	38.0	85	70-130		
Bromobenzene	25.3		µg/l		20.0	BRL	127	70-130		
Bromochloromethane	21.0		µg/l		20.0	BRL	105	70-130		
Bromodichloromethane	19.7		µg/l		20.0	BRL	99	70-130		
Bromoform	25.5		µg/l		20.0	BRL	127	70-130		
Bromomethane	11.7	QM7	µg/l		20.0	BRL	59	70-130		
2-Butanone (MEK)	16.9		µg/l		20.0	BRL	84	70-130		
n-Butylbenzene	30.4	QM7	µg/l		20.0	BRL	152	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
Matrix Spike (1008989-MS1)			Source: SB11046-02		Prepared & Analyzed: 29-Apr-10					
sec-Butylbenzene	31.8	QM7	µg/l		20.0	BRL	159	70-130		
tert-Butylbenzene	31.9	QM7	µg/l		20.0	BRL	159	70-130		
Carbon disulfide	17.5		µg/l		20.0	0.8	83	70-130		
Carbon tetrachloride	24.1		µg/l		20.0	BRL	121	70-130		
Chlorobenzene	22.1		µg/l		20.0	BRL	111	70-130		
Chloroethane	14.7		µg/l		20.0	BRL	74	70-130		
Chloroform	21.0		µg/l		20.0	BRL	105	70-130		
Chloromethane	12.8	QM7	µg/l		20.0	BRL	64	70-130		
2-Chlorotoluene	26.2	QM7	µg/l		20.0	BRL	131	70-130		
4-Chlorotoluene	26.9	QM7	µg/l		20.0	BRL	135	70-130		
1,2-Dibromo-3-chloropropane	20.8		µg/l		20.0	BRL	104	70-130		
Dibromochloromethane	21.9		µg/l		20.0	BRL	109	70-130		
1,2-Dibromoethane (EDB)	20.2		µg/l		20.0	BRL	101	70-130		
Dibromomethane	18.2		µg/l		20.0	BRL	91	70-130		
1,2-Dichlorobenzene	24.7		µg/l		20.0	BRL	123	70-130		
1,3-Dichlorobenzene	27.1	QM7	µg/l		20.0	BRL	135	70-130		
1,4-Dichlorobenzene	23.1		µg/l		20.0	BRL	115	70-130		
Dichlorodifluoromethane (Freon12)	18.0		µg/l		20.0	BRL	90	70-130		
1,1-Dichloroethane	19.0		µg/l		20.0	BRL	95	70-130		
1,2-Dichloroethane	17.8		µg/l		20.0	BRL	89	70-130		
1,1-Dichloroethene	19.8		µg/l		20.0	BRL	99	70-130		
cis-1,2-Dichloroethene	21.0		µg/l		20.0	BRL	105	70-130		
trans-1,2-Dichloroethene	19.5		µg/l		20.0	BRL	97	70-130		
1,2-Dichloropropane	18.5		µg/l		20.0	BRL	92	70-130		
1,3-Dichloropropane	18.4		µg/l		20.0	BRL	92	70-130		
2,2-Dichloropropane	23.5		µg/l		20.0	BRL	117	70-130		
1,1-Dichloropropene	24.9		µg/l		20.0	BRL	124	70-130		
cis-1,3-Dichloropropene	21.3		µg/l		20.0	BRL	107	70-130		
trans-1,3-Dichloropropene	21.7		µg/l		20.0	BRL	109	70-130		
Ethylbenzene	33.8		µg/l		20.0	8.4	127	70-130		
Hexachlorobutadiene	36.6	QM7	µg/l		20.0	BRL	183	70-130		
2-Hexanone (MBK)	21.7		µg/l		20.0	BRL	108	70-130		
Isopropylbenzene	28.8	QM7	µg/l		20.0	1.8	135	70-130		
4-Isopropyltoluene	29.6	QM7	µg/l		20.0	1.2	142	70-130		
Methyl tert-butyl ether	23.1		µg/l		20.0	BRL	116	70-130		
4-Methyl-2-pentanone (MIBK)	20.3		µg/l		20.0	BRL	102	70-130		
Methylene chloride	17.1		µg/l		20.0	BRL	85	70-130		
Naphthalene	116		µg/l		20.0	90.0	130	70-130		
n-Propylbenzene	29.4	QM7	µg/l		20.0	0.7	144	70-130		
Styrene	33.5	QM7	µg/l		20.0	5.4	141	70-130		
1,1,1,2-Tetrachloroethane	23.9		µg/l		20.0	BRL	120	70-130		
1,1,2,2-Tetrachloroethane	27.0	QM7	µg/l		20.0	BRL	135	70-130		
Tetrachloroethene	28.0	QM7	µg/l		20.0	BRL	140	70-130		
Toluene	26.6		µg/l		20.0	6.2	102	70-130		
1,2,3-Trichlorobenzene	31.3	QM7	µg/l		20.0	BRL	157	70-130		
1,2,4-Trichlorobenzene	33.5	QM7	µg/l		20.0	BRL	168	70-130		
1,3,5-Trichlorobenzene	31.4	QM7	µg/l		20.0	BRL	157	70-130		
1,1,1-Trichloroethane	22.6		µg/l		20.0	BRL	113	70-130		
1,1,2-Trichloroethane	19.4		µg/l		20.0	BRL	97	70-130		
Trichloroethene	19.4		µg/l		20.0	BRL	97	70-130		
Trichlorofluoromethane (Freon 11)	20.8		µg/l		20.0	BRL	104	70-130		
1,2,3-Trichloropropane	19.2		µg/l		20.0	BRL	96	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
Matrix Spike (1008989-MS1)			Source: SB11046-02		Prepared & Analyzed: 29-Apr-10					
1,2,4-Trimethylbenzene	38.4	QM7	µg/l		20.0	9.5	144	70-130		
1,3,5-Trimethylbenzene	34.0	QM7	µg/l		20.0	3.5	152	70-130		
Vinyl chloride	14.6		µg/l		20.0	BRL	73	70-130		
m,p-Xylene	71.7		µg/l		40.0	19.8	130	70-130		
o-Xylene	34.6		µg/l		20.0	9.2	127	70-130		
Tetrahydrofuran	19.3		µg/l		20.0	BRL	96	70-130		
Ethyl ether	18.3		µg/l		20.0	BRL	91	70-130		
Tert-amyl methyl ether	18.4		µg/l		20.0	BRL	92	70-130		
Ethyl tert-butyl ether	21.3		µg/l		20.0	BRL	106	70-130		
Di-isopropyl ether	19.7		µg/l		20.0	BRL	98	70-130		
Tert-Butanol / butyl alcohol	159		µg/l		200	BRL	80	70-130		
1,4-Dioxane	195		µg/l		200	BRL	98	70-130		
trans-1,4-Dichloro-2-butene	17.5		µg/l		20.0	BRL	87	70-130		
Ethanol	298		µg/l		400	BRL	75	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.5*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Matrix Spike Dup (1008989-MSD1)			Source: SB11046-02		Prepared & Analyzed: 29-Apr-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.7		µg/l		20.0	BRL	119	70-130	0.08	30
Acetone	17.5		µg/l		20.0	BRL	88	70-130	2	30
Acrylonitrile	18.5		µg/l		20.0	BRL	92	70-130	3	30
Benzene	54.3		µg/l		20.0	38.0	82	70-130	4	30
Bromobenzene	25.0		µg/l		20.0	BRL	125	70-130	1	30
Bromochloromethane	21.0		µg/l		20.0	BRL	105	70-130	0	30
Bromodichloromethane	20.3		µg/l		20.0	BRL	102	70-130	3	30
Bromoform	24.7		µg/l		20.0	BRL	123	70-130	3	30
Bromomethane	11.0	QM7	µg/l		20.0	BRL	55	70-130	7	30
2-Butanone (MEK)	18.8		µg/l		20.0	BRL	94	70-130	11	30
n-Butylbenzene	32.0	QM7	µg/l		20.0	BRL	160	70-130	5	30
sec-Butylbenzene	31.6	QM7	µg/l		20.0	BRL	158	70-130	0.7	30
tert-Butylbenzene	31.7	QM7	µg/l		20.0	BRL	158	70-130	0.6	30
Carbon disulfide	17.8		µg/l		20.0	0.8	85	70-130	2	30
Carbon tetrachloride	24.6		µg/l		20.0	BRL	123	70-130	2	30
Chlorobenzene	22.1		µg/l		20.0	BRL	110	70-130	0.1	30
Chloroethane	22.0	QR2	µg/l		20.0	BRL	110	70-130	39	30
Chloroform	20.8		µg/l		20.0	BRL	104	70-130	1	30
Chloromethane	14.5		µg/l		20.0	BRL	72	70-130	12	30
2-Chlorotoluene	25.8		µg/l		20.0	BRL	129	70-130	1	30
4-Chlorotoluene	27.0	QM7	µg/l		20.0	BRL	135	70-130	0.3	30
1,2-Dibromo-3-chloropropane	21.6		µg/l		20.0	BRL	108	70-130	4	30
Dibromochloromethane	22.4		µg/l		20.0	BRL	112	70-130	2	30
1,2-Dibromoethane (EDB)	20.5		µg/l		20.0	BRL	103	70-130	1	30
Dibromomethane	17.8		µg/l		20.0	BRL	89	70-130	2	30
1,2-Dichlorobenzene	25.0		µg/l		20.0	BRL	125	70-130	1	30
1,3-Dichlorobenzene	27.0	QM7	µg/l		20.0	BRL	135	70-130	0.1	30
1,4-Dichlorobenzene	23.1		µg/l		20.0	BRL	116	70-130	0.09	30
Dichlorodifluoromethane (Freon12)	17.5		µg/l		20.0	BRL	88	70-130	2	30
1,1-Dichloroethane	18.8		µg/l		20.0	BRL	94	70-130	1	30
1,2-Dichloroethane	17.7		µg/l		20.0	BRL	89	70-130	0.3	30
1,1-Dichloroethene	19.5		µg/l		20.0	BRL	97	70-130	2	30

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008989 - SW846 5030 Water MS										
Matrix Spike Dup (1008989-MSD1)			Source: SB11046-02		Prepared & Analyzed: 29-Apr-10					
cis-1,2-Dichloroethene	21.0		µg/l		20.0	BRL	105	70-130	0.05	30
trans-1,2-Dichloroethene	18.9		µg/l		20.0	BRL	95	70-130	3	30
1,2-Dichloropropane	19.4		µg/l		20.0	BRL	97	70-130	5	30
1,3-Dichloropropane	18.7		µg/l		20.0	BRL	94	70-130	1	30
2,2-Dichloropropane	23.8		µg/l		20.0	BRL	119	70-130	2	30
1,1-Dichloropropene	24.7		µg/l		20.0	BRL	124	70-130	0.7	30
cis-1,3-Dichloropropene	22.0		µg/l		20.0	BRL	110	70-130	3	30
trans-1,3-Dichloropropene	22.0		µg/l		20.0	BRL	110	70-130	1	30
Ethylbenzene	34.1		µg/l		20.0	8.4	129	70-130	1	30
Hexachlorobutadiene	38.2	QM7	µg/l		20.0	BRL	191	70-130	4	30
2-Hexanone (MBK)	22.2		µg/l		20.0	BRL	111	70-130	3	30
Isopropylbenzene	28.7	QM7	µg/l		20.0	1.8	134	70-130	0.4	30
4-Isopropyltoluene	30.7	QM7	µg/l		20.0	1.2	147	70-130	4	30
Methyl tert-butyl ether	21.2		µg/l		20.0	BRL	106	70-130	9	30
4-Methyl-2-pentanone (MIBK)	21.3		µg/l		20.0	BRL	107	70-130	5	30
Methylene chloride	16.0		µg/l		20.0	BRL	80	70-130	7	30
Naphthalene	127	QM7, QR5	µg/l		20.0	90.0	184	70-130	34	30
n-Propylbenzene	29.2	QM7	µg/l		20.0	0.7	143	70-130	0.7	30
Styrene	32.5	QM7	µg/l		20.0	5.4	136	70-130	4	30
1,1,1,2-Tetrachloroethane	24.2		µg/l		20.0	BRL	121	70-130	1	30
1,1,2,2-Tetrachloroethane	26.6	QM7	µg/l		20.0	BRL	133	70-130	1	30
Tetrachloroethene	27.6	QM7	µg/l		20.0	BRL	138	70-130	1	30
Toluene	26.6		µg/l		20.0	6.2	102	70-130	0.1	30
1,2,3-Trichlorobenzene	33.6	QM7	µg/l		20.0	BRL	168	70-130	7	30
1,2,4-Trichlorobenzene	34.7	QM7	µg/l		20.0	BRL	173	70-130	3	30
1,3,5-Trichlorobenzene	32.6	QM7	µg/l		20.0	BRL	163	70-130	4	30
1,1,1-Trichloroethane	22.9		µg/l		20.0	BRL	114	70-130	1	30
1,1,2-Trichloroethane	19.2		µg/l		20.0	BRL	96	70-130	0.7	30
Trichloroethene	19.0		µg/l		20.0	BRL	95	70-130	2	30
Trichlorofluoromethane (Freon 11)	20.5		µg/l		20.0	BRL	102	70-130	1	30
1,2,3-Trichloropropane	19.1		µg/l		20.0	BRL	96	70-130	0.2	30
1,2,4-Trimethylbenzene	38.6	QM7	µg/l		20.0	9.5	146	70-130	0.8	30
1,3,5-Trimethylbenzene	33.4	QM7	µg/l		20.0	3.5	149	70-130	2	30
Vinyl chloride	14.4		µg/l		20.0	BRL	72	70-130	2	30
m,p-Xylene	71.9		µg/l		40.0	19.8	130	70-130	0.3	30
o-Xylene	35.4	QM7	µg/l		20.0	9.2	131	70-130	3	30
Tetrahydrofuran	20.0		µg/l		20.0	BRL	100	70-130	4	30
Ethyl ether	18.3		µg/l		20.0	BRL	92	70-130	0.3	30
Tert-amyl methyl ether	18.5		µg/l		20.0	BRL	93	70-130	0.8	30
Ethyl tert-butyl ether	21.8		µg/l		20.0	BRL	109	70-130	3	30
Di-isopropyl ether	20.5		µg/l		20.0	BRL	102	70-130	4	30
Tert-Butanol / butyl alcohol	157		µg/l		200	BRL	78	70-130	2	30
1,4-Dioxane	184		µg/l		200	BRL	92	70-130	6	30
trans-1,4-Dichloro-2-butene	16.4		µg/l		20.0	BRL	82	70-130	6	30
Ethanol	321		µg/l		400	BRL	80	70-130	7	30
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.8*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Batch 1009099 - SW846 5030 Water MS										
Blank (1009099-BLK1)					Prepared & Analyzed: 30-Apr-10					

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1009099 - SW846 5030 Water MS										
Blank (1009099-BLK1)					Prepared & Analyzed: 30-Apr-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0						
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	0.5						
Benzene	BRL		µg/l	1.0						
Bromobenzene	BRL		µg/l	1.0						
Bromochloromethane	BRL		µg/l	1.0						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	1.0						
Bromomethane	BRL		µg/l	2.0						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Carbon disulfide	BRL		µg/l	2.0						
Carbon tetrachloride	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
Chloroethane	BRL		µg/l	2.0						
Chloroform	BRL		µg/l	1.0						
Chloromethane	BRL		µg/l	2.0						
2-Chlorotoluene	BRL		µg/l	1.0						
4-Chlorotoluene	BRL		µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	1.0						
1,2-Dichlorobenzene	BRL		µg/l	1.0						
1,3-Dichlorobenzene	BRL		µg/l	1.0						
1,4-Dichlorobenzene	BRL		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0						
1,1-Dichloroethane	BRL		µg/l	1.0						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
cis-1,2-Dichloroethene	BRL		µg/l	1.0						
trans-1,2-Dichloroethene	BRL		µg/l	1.0						
1,2-Dichloropropane	BRL		µg/l	1.0						
1,3-Dichloropropane	BRL		µg/l	1.0						
2,2-Dichloropropane	BRL		µg/l	1.0						
1,1-Dichloropropene	BRL		µg/l	1.0						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	1.0						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	2.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						
Styrene	BRL		µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1009099 - SW846 5030 Water MS										
Blank (1009099-BLK1)						Prepared & Analyzed: 30-Apr-10				
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,3-Trichlorobenzene	BRL		µg/l	1.0						
1,2,4-Trichlorobenzene	BRL		µg/l	1.0						
1,3,5-Trichlorobenzene	BRL		µg/l	1.0						
1,1,1-Trichloroethane	BRL		µg/l	1.0						
1,1,2-Trichloroethane	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0						
1,2,3-Trichloropropane	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
Vinyl chloride	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Tetrahydrofuran	BRL		µg/l	2.0						
Ethyl ether	BRL		µg/l	1.0						
Tert-amyl methyl ether	BRL		µg/l	1.0						
Ethyl tert-butyl ether	BRL		µg/l	1.0						
Di-isopropyl ether	BRL		µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*42.7*		µg/l		*50.0*		*85*	*70-130*		
Surrogate: Toluene-d8	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.5*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*53.0*		µg/l		*50.0*		*106*	*70-130*		
LCS (1009099-BS1)						Prepared & Analyzed: 30-Apr-10				
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.7		µg/l		20.0		113	70-130		
Acetone	21.9		µg/l		20.0		110	53.2-137		
Acrylonitrile	20.6		µg/l		20.0		103	70-130		
Benzene	20.8		µg/l		20.0		104	70-130		
Bromobenzene	20.8		µg/l		20.0		104	70-130		
Bromochloromethane	19.1		µg/l		20.0		96	70-130		
Bromodichloromethane	22.1		µg/l		20.0		110	70-130		
Bromoform	22.2		µg/l		20.0		111	70-130		
Bromomethane	19.8		µg/l		20.0		99	48.9-147		
2-Butanone (MEK)	18.9		µg/l		20.0		95	70-139		
n-Butylbenzene	21.8		µg/l		20.0		109	70-130		
sec-Butylbenzene	22.1		µg/l		20.0		110	70-130		
tert-Butylbenzene	22.3		µg/l		20.0		112	70-130		
Carbon disulfide	21.4		µg/l		20.0		107	70-130		
Carbon tetrachloride	24.0		µg/l		20.0		120	70-130		
Chlorobenzene	19.8		µg/l		20.0		99	70-130		
Chloroethane	20.0		µg/l		20.0		100	65.6-130		
Chloroform	20.9		µg/l		20.0		105	70-130		
Chloromethane	20.2		µg/l		20.0		101	70-130		
2-Chlorotoluene	20.7		µg/l		20.0		104	70-130		
4-Chlorotoluene	21.3		µg/l		20.0		106	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1009099 - SW846 5030 Water MS										
LCS (1009099-BS1)					Prepared & Analyzed: 30-Apr-10					
1,2-Dibromo-3-chloropropane	19.6		µg/l		20.0		98	70-130		
Dibromochloromethane	23.2		µg/l		20.0		116	52.9-130		
1,2-Dibromoethane (EDB)	21.4		µg/l		20.0		107	70-130		
Dibromomethane	20.3		µg/l		20.0		102	70-130		
1,2-Dichlorobenzene	20.1		µg/l		20.0		101	70-130		
1,3-Dichlorobenzene	21.3		µg/l		20.0		107	70-130		
1,4-Dichlorobenzene	19.8		µg/l		20.0		99	70-130		
Dichlorodifluoromethane (Freon12)	24.5		µg/l		20.0		123	63.1-130		
1,1-Dichloroethane	20.5		µg/l		20.0		102	70-130		
1,2-Dichloroethane	19.4		µg/l		20.0		97	70-130		
1,1-Dichloroethene	21.3		µg/l		20.0		107	70-130		
cis-1,2-Dichloroethene	17.6		µg/l		20.0		88	70-130		
trans-1,2-Dichloroethene	20.3		µg/l		20.0		102	70-130		
1,2-Dichloropropane	21.0		µg/l		20.0		105	70-130		
1,3-Dichloropropane	19.5		µg/l		20.0		98	70-130		
2,2-Dichloropropane	20.4		µg/l		20.0		102	70-130		
1,1-Dichloropropene	22.3		µg/l		20.0		111	70-130		
cis-1,3-Dichloropropene	21.6		µg/l		20.0		108	70-130		
trans-1,3-Dichloropropene	20.4		µg/l		20.0		102	70-130		
Ethylbenzene	20.8		µg/l		20.0		104	70-130		
Hexachlorobutadiene	20.0		µg/l		20.0		100	70-130		
2-Hexanone (MBK)	19.0		µg/l		20.0		95	70-130		
Isopropylbenzene	20.7		µg/l		20.0		104	70-130		
4-Isopropyltoluene	21.2		µg/l		20.0		106	70-130		
Methyl tert-butyl ether	20.1		µg/l		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	17.8		µg/l		20.0		89	61-130		
Methylene chloride	19.5		µg/l		20.0		97	70-130		
Naphthalene	22.0		µg/l		20.0		110	70-130		
n-Propylbenzene	22.0		µg/l		20.0		110	70-130		
Styrene	21.0		µg/l		20.0		105	70-130		
1,1,1,2-Tetrachloroethane	23.3		µg/l		20.0		116	70-130		
1,1,2,2-Tetrachloroethane	19.7		µg/l		20.0		99	70-130		
Tetrachloroethene	20.2		µg/l		20.0		101	70-130		
Toluene	20.5		µg/l		20.0		103	70-130		
1,2,3-Trichlorobenzene	19.6		µg/l		20.0		98	70-130		
1,2,4-Trichlorobenzene	18.6		µg/l		20.0		93	70-130		
1,3,5-Trichlorobenzene	20.7		µg/l		20.0		104	70-130		
1,1,1-Trichloroethane	21.1		µg/l		20.0		106	70-130		
1,1,2-Trichloroethane	20.0		µg/l		20.0		100	70-130		
Trichloroethene	21.8		µg/l		20.0		109	70-130		
Trichlorofluoromethane (Freon 11)	22.4		µg/l		20.0		112	60-172		
1,2,3-Trichloropropane	19.8		µg/l		20.0		99	70-130		
1,2,4-Trimethylbenzene	21.3		µg/l		20.0		107	70-130		
1,3,5-Trimethylbenzene	21.3		µg/l		20.0		106	70-130		
Vinyl chloride	19.8		µg/l		20.0		99	70-130		
m,p-Xylene	42.0		µg/l		40.0		105	70-130		
o-Xylene	21.3		µg/l		20.0		106	70-130		
Tetrahydrofuran	18.8		µg/l		20.0		94	70-130		
Ethyl ether	20.3		µg/l		20.0		101	70-130		
Tert-amyl methyl ether	18.4		µg/l		20.0		92	70-130		
Ethyl tert-butyl ether	20.7		µg/l		20.0		103	70-130		
Di-isopropyl ether	20.6		µg/l		20.0		103	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1009099 - SW846 5030 Water MS										
LCS (1009099-BS1)					Prepared & Analyzed: 30-Apr-10					
Tert-Butanol / butyl alcohol	187		µg/l		200		94	70-130		
1,4-Dioxane	221		µg/l		200		111	54.2-130		
trans-1,4-Dichloro-2-butene	22.2		µg/l		20.0		111	70-130		
Ethanol	389		µg/l		400		97	70-130		
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.1*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.0*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*50.4*		µg/l		*50.0*		*101*	*70-130*		
LCS Dup (1009099-BSD1)					Prepared & Analyzed: 30-Apr-10					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.7		µg/l		20.0		114	70-130	0.2	25
Acetone	21.4		µg/l		20.0		107	53.2-137	2	50
Acrylonitrile	22.6		µg/l		20.0		113	70-130	9	25
Benzene	20.3		µg/l		20.0		102	70-130	2	25
Bromobenzene	19.8		µg/l		20.0		99	70-130	5	25
Bromochloromethane	21.0		µg/l		20.0		105	70-130	9	25
Bromodichloromethane	21.6		µg/l		20.0		108	70-130	2	25
Bromoform	22.6		µg/l		20.0		113	70-130	2	25
Bromomethane	20.1		µg/l		20.0		100	48.9-147	2	50
2-Butanone (MEK)	20.5		µg/l		20.0		103	70-139	8	50
n-Butylbenzene	21.1		µg/l		20.0		105	70-130	3	25
sec-Butylbenzene	21.0		µg/l		20.0		105	70-130	5	25
tert-Butylbenzene	21.0		µg/l		20.0		105	70-130	6	25
Carbon disulfide	21.0		µg/l		20.0		105	70-130	2	25
Carbon tetrachloride	23.5		µg/l		20.0		117	70-130	2	25
Chlorobenzene	19.5		µg/l		20.0		97	70-130	2	25
Chloroethane	20.6		µg/l		20.0		103	65.6-130	3	50
Chloroform	21.2		µg/l		20.0		106	70-130	1	25
Chloromethane	20.4		µg/l		20.0		102	70-130	0.9	25
2-Chlorotoluene	20.0		µg/l		20.0		100	70-130	4	25
4-Chlorotoluene	19.5		µg/l		20.0		98	70-130	9	25
1,2-Dibromo-3-chloropropane	19.5		µg/l		20.0		98	70-130	0.3	25
Dibromochloromethane	22.8		µg/l		20.0		114	52.9-130	2	50
1,2-Dibromoethane (EDB)	21.3		µg/l		20.0		107	70-130	0.2	25
Dibromomethane	21.5		µg/l		20.0		108	70-130	6	25
1,2-Dichlorobenzene	20.1		µg/l		20.0		101	70-130	0.1	25
1,3-Dichlorobenzene	20.6		µg/l		20.0		103	70-130	3	25
1,4-Dichlorobenzene	19.5		µg/l		20.0		98	70-130	1	25
Dichlorodifluoromethane (Freon12)	23.6		µg/l		20.0		118	63.1-130	4	50
1,1-Dichloroethane	21.0		µg/l		20.0		105	70-130	2	25
1,2-Dichloroethane	20.0		µg/l		20.0		100	70-130	3	25
1,1-Dichloroethene	20.4		µg/l		20.0		102	70-130	4	25
cis-1,2-Dichloroethene	21.9		µg/l		20.0		110	70-130	22	25
trans-1,2-Dichloroethene	20.4		µg/l		20.0		102	70-130	0.5	25
1,2-Dichloropropane	20.1		µg/l		20.0		100	70-130	4	25
1,3-Dichloropropane	20.5		µg/l		20.0		103	70-130	5	25
2,2-Dichloropropane	20.7		µg/l		20.0		104	70-130	2	25
1,1-Dichloropropene	21.4		µg/l		20.0		107	70-130	4	25
cis-1,3-Dichloropropene	21.2		µg/l		20.0		106	70-130	2	25
trans-1,3-Dichloropropene	20.9		µg/l		20.0		104	70-130	2	25
Ethylbenzene	19.9		µg/l		20.0		100	70-130	4	25
Hexachlorobutadiene	19.6		µg/l		20.0		98	70-130	2	50

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1009099 - SW846 5030 Water MS										
LCS Dup (1009099-BSD1)					Prepared & Analyzed: 30-Apr-10					
2-Hexanone (MBK)	20.3		µg/l		20.0		101	70-130	6	25
Isopropylbenzene	20.1		µg/l		20.0		100	70-130	3	25
4-Isopropyltoluene	20.7		µg/l		20.0		104	70-130	2	25
Methyl tert-butyl ether	21.0		µg/l		20.0		105	70-130	4	25
4-Methyl-2-pentanone (MIBK)	20.3		µg/l		20.0		102	61-130	13	50
Methylene chloride	20.4		µg/l		20.0		102	70-130	5	25
Naphthalene	22.6		µg/l		20.0		113	70-130	3	25
n-Propylbenzene	21.3		µg/l		20.0		106	70-130	3	25
Styrene	20.4		µg/l		20.0		102	70-130	2	25
1,1,1,2-Tetrachloroethane	23.8		µg/l		20.0		119	70-130	2	25
1,1,2,2-Tetrachloroethane	19.8		µg/l		20.0		99	70-130	0.3	25
Tetrachloroethene	19.3		µg/l		20.0		98	70-130	5	25
Toluene	20.9		µg/l		20.0		105	70-130	2	25
1,2,3-Trichlorobenzene	20.1		µg/l		20.0		100	70-130	3	25
1,2,4-Trichlorobenzene	19.4		µg/l		20.0		97	70-130	4	25
1,3,5-Trichlorobenzene	20.8		µg/l		20.0		104	70-130	0.05	25
1,1,1-Trichloroethane	21.1		µg/l		20.0		106	70-130	0.09	25
1,1,2-Trichloroethane	20.4		µg/l		20.0		102	70-130	2	25
Trichloroethene	20.9		µg/l		20.0		104	70-130	4	25
Trichlorofluoromethane (Freon 11)	22.4		µg/l		20.0		112	60-172	0.4	50
1,2,3-Trichloropropane	19.6		µg/l		20.0		98	70-130	0.8	25
1,2,4-Trimethylbenzene	20.4		µg/l		20.0		102	70-130	5	25
1,3,5-Trimethylbenzene	21.0		µg/l		20.0		105	70-130	2	25
Vinyl chloride	18.4		µg/l		20.0		92	70-130	7	25
m,p-Xylene	41.7		µg/l		40.0		104	70-130	0.7	25
o-Xylene	21.2		µg/l		20.0		106	70-130	0.3	25
Tetrahydrofuran	20.5		µg/l		20.0		102	70-130	9	25
Ethyl ether	20.7		µg/l		20.0		104	70-130	2	50
Tert-amyl methyl ether	19.1		µg/l		20.0		96	70-130	4	25
Ethyl tert-butyl ether	20.7		µg/l		20.0		104	70-130	0.3	25
Di-isopropyl ether	21.6		µg/l		20.0		108	70-130	5	25
Tert-Butanol / butyl alcohol	204		µg/l		200		102	70-130	8	25
1,4-Dioxane	209		µg/l		200		104	54.2-130	6	25
trans-1,4-Dichloro-2-butene	21.6		µg/l		20.0		108	70-130	3	25
Ethanol	418		µg/l		400		104	70-130	7	30
Surrogate: 4-Bromofluorobenzene	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*51.2*		µg/l		*50.0*		*102*	*70-130*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008734 - SW846 3510C										
Blank (1008734-BLK1)					Prepared & Analyzed: 27-Apr-10					
Aroclor-1016	BRL		µg/l	0.200						
Aroclor-1016 [2C]	BRL		µg/l	0.200						
Aroclor-1221	BRL		µg/l	0.200						
Aroclor-1221 [2C]	BRL		µg/l	0.200						
Aroclor-1232	BRL		µg/l	0.200						
Aroclor-1232 [2C]	BRL		µg/l	0.200						
Aroclor-1242	BRL		µg/l	0.200						
Aroclor-1242 [2C]	BRL		µg/l	0.200						
Aroclor-1248	BRL		µg/l	0.200						
Aroclor-1248 [2C]	BRL		µg/l	0.200						
Aroclor-1254	BRL		µg/l	0.200						
Aroclor-1254 [2C]	BRL		µg/l	0.200						
Aroclor-1260	BRL		µg/l	0.200						
Aroclor-1260 [2C]	BRL		µg/l	0.200						
Aroclor-1262	BRL		µg/l	0.200						
Aroclor-1262 [2C]	BRL		µg/l	0.200						
Aroclor-1268	BRL		µg/l	0.200						
Aroclor-1268 [2C]	BRL		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.136*		µg/l		*0.200*		*68*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.137*		µg/l		*0.200*		*68*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.138*		µg/l		*0.200*		*69*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.118*		µg/l		*0.200*		*59*	*30-150*		
LCS (1008734-BS1)					Prepared & Analyzed: 27-Apr-10					
Aroclor-1016	1.85		µg/l	0.200	2.50		74	50-140		
Aroclor-1016 [2C]	1.78		µg/l	0.200	2.50		71	50-140		
Aroclor-1260	1.77		µg/l	0.200	2.50		71	50-140		
Aroclor-1260 [2C]	1.65		µg/l	0.200	2.50		66	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.161*		µg/l		*0.200*		*78*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.144*		µg/l		*0.200*		*72*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.123*		µg/l		*0.200*		*62*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.129*		µg/l		*0.200*		*64*	*30-150*		
LCS Dup (1008734-BSD1)					Prepared: 27-Apr-10 Analyzed: 28-Apr-10					
Aroclor-1016	2.01		µg/l	0.200	2.50		80	50-140	8	30
Aroclor-1016 [2C]	1.82		µg/l	0.200	2.50		73	50-140	3	30
Aroclor-1260	1.72		µg/l	0.200	2.50		69	50-140	3	30
Aroclor-1260 [2C]	1.58		µg/l	0.200	2.50		63	50-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.149*		µg/l		*0.200*		*74*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.144*		µg/l		*0.200*		*72*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.123*		µg/l		*0.200*		*62*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.132*		µg/l		*0.200*		*66*	*30-150*		
Matrix Spike (1008734-MS1)			Source: SB11048-02		Prepared: 27-Apr-10 Analyzed: 28-Apr-10					
Aroclor-1016	2.16		µg/l	0.206	2.58	BRL	84	40-135		
Aroclor-1260	1.73		µg/l	0.206	2.58	BRL	67	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.116*		µg/l		*0.206*		*56*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.182*		µg/l		*0.206*		*88*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.111*		µg/l		*0.206*		*54*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.129*		µg/l		*0.206*		*62*	*30-150*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1008734 - SW846 3510C										
Matrix Spike Dup (1008734-MSD1)			Source: SB11046-02		Prepared: 27-Apr-10 Analyzed: 28-Apr-10					
Aroclor-1016	2.24		µg/l	0.211	2.63	BRL	85	40-135	1	15
Aroclor-1260	1.77		µg/l	0.211	2.63	BRL	67	40-135	0.2	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.193*		µg/l		*0.211*		*92*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.151*		µg/l		*0.211*		*72*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.106*		µg/l		*0.211*		*51*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.132*		µg/l		*0.211*		*62*	*30-150*		

Notes and Definitions

GS	This sample was not able to be analyzed for client requested reporting limits due to high concentrations of target analytes in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
R04	The Reporting Limits for this analysis are elevated due to sample foaming.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic

Validated by:
Hanibal C. Tayeh, Ph.D.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: Stantec Consulting Services - Hartford, CT

Project Location: 78-98 Rebeschi Dr. - North Haven, CT

Project Number: [none]

Sampling Date(s):
4/21/2010 through 4/22/2010

Laboratory Sample ID(s):
SB11046-01 through SB11046-05

RCP Methods Used:
SW846 8082
SW846 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes No
1B	*VPH and EPH methods only*: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * * *These methods have not yet been approved for release by CT DEP*	Yes No ✓ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes No
3	Were samples received at an appropriate temperature?	✓ Yes No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes ✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? * *Exceptions are defined by qualifiers*	Yes ✓ No Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director
Date: 5/3/2010

SB11046 B

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
☐ Standard TAT - ~~7 to 10~~ 2 days business days
☐ Rush TAT - Date Needed: ________
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: John Insall
Stantec Consulting Services, Inc.
20 Church Street, Suite 1710
Hartford, CT 06103
Telephone #: (860) 948-1628 ext. 2113
Project Mgr. John Insall

Invoice To: ← Same

P.O. No.: ________ RQN: ________

Project No.: ________
Site Name: 78-98 Rubeschi Drive
Location: North Haven State: CT
Sampler(s): A. Koval (860) 805-8837

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= 4°C 10= ____ 11= ____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= ~~WE~~ TK X2= ____ X3= ____

G=Grab C=Composite

List preservative code below: 2,9 | 9

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs	PCBs
11046-01	RIZ-6	4/21/10	1305	G	GW	3	1			X	X
02	RIZ-15A	4/21/10	1645	G	GW	3	3			X	X
03	Dup-1	4/21/10	1405	G	GW	3	1			X	X
04	RIZ-17	4/22/10	1625	G	GW	3	1			X	X
05	Trip Blank			G	DI	1				X	

QA/QC Reporting Notes: (check as needed)
☐ Provide MA DEP MCP CAM Report
☒ Provide CT DPH RCP Report
QA/QC Reporting Level
☒ Standard ☐ No QC
☐ Other ________
State specific reporting standards: CT RCP/RSR

Please run MS/MSD

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	4/23/10	1640	2.2

☒ EDD Format PDF + Excel
☒ E-mail to John.Insall@Stantec.com
Anthony.Koval

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

Report Date:
11-May-10 15:42

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Stantec Consulting Services
20 Church Street, Suite 1710
Hartford, CT 06103
Attn: John Insall

Project: 78-98 Rebeschi Dr. - North Haven, CT
Project #: [none]

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB11047-01	Warehouse	Air	23-Apr-10 11:28	23-Apr-10 16:45
SB11047-02	Dup	Air	23-Apr-10 11:53	23-Apr-10 16:45
SB11047-03	Ambient	Air	23-Apr-10 12:06	23-Apr-10 16:45
SB11047-04	Office	Air	23-Apr-10 12:22	23-Apr-10 16:45
SB11047-05	Amarr	Air	23-Apr-10 12:52	23-Apr-10 16:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Please note that this report contains 1 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Please note that this report includes 7 pages of analytical data from Northeast Analytical, Inc. (NEA ID AN04537-42).

SB 11047 [illegible]

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information@nealab.com

PAGE __ <10040179P1>

LRF # __ 100401791

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ◯ RETURN TO CLIENT
- ⊗ DISPOSAL BY NORTHEAST ANALYTICAL
- ◯ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO):	Stantec Consulting Services Inc
PROJECT/PROJECT NAME:	78-98 Rebuck Drive
PROJECT MANAGER:	John Ingalls
PROJECT LOCATION (CITY/STATE) ADDRESS:	North Haven, CT
PHONE:	(860) 948-1628
SAMPLED BY: (Please Print)	Anthony Koval
REQUIRED TURN AROUND TIME:	
SAMPLING FIRM:	Stantec Consulting Services, Inc
NAME OF COURIER (IF USED):	Spectrum Analytical
Data Report:	☐ CLP* ☐ Certificate Only
ELECTRONIC RESULTS FORMAT:	PDF ☐ EXCEL (.CSV) ☐
E-MAIL ADDRESS:	
FAXED RESULTS: ☐	FAX #:

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

	ABS - TO-4A							
PRESERVATIVE CODE:	8							
BOTTLE TYPE:	PUF							
BOTTLE SIZE:								

PRESERVATIVE KEY: 0 - NONE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other: 4°C

SAMPLE ID	DATE	TIME	MATRIX	GRAB/COMP	LAB SAMPLE ID (NEA USE ONLY)	NUMBER OF CONTAINERS	ABS - TO-4A		REMARKS:
Warehouse	4/20/10	1128	Air	G	11097-01	1	X	AN04537	
Dip	4/23/10	1153	↓	↓	.02	1	X	AN04538	Top of PUF [illegible]
Ambient	4/23/10	1206			03	1	X	AN04539	[illegible] PUF [illegible]
Office	4/23/10	1222			04	1	X	AN04540	[illegible]
Amour	4/23/10	1252	↓	↓	05	1	X	AN04541	Top & Bottom [illegible]
Field Spike-8082								AN04542	
Field Spike-1680								AN04543	

AMBIENT OR CHILLED: (circled)	TEMP 20.8	COC TAPE: Y (N)	PROPERLY PRESERVED: (Y) N
RECEIVED BROKEN OR LEAKING: (Y) N		COC DISCREPANCIES: (Y) N	RECV'D W/I HOLDING TIMES: (Y) N

OTHER NOTES:

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	[signature]	[signature]	UPS	A Moore		
PRINTED NAME	Anthony G. Koval	[illegible] Knowles		A MOORE		
COMPANY	Stantec			NEA		
DATE/TIME	4/23/10 1615	4/23/10 1045	↓	4/27/10 1024		

* CLP LIKE DATA PACKAGE ADDITIONAL COST

5.0

LOGIN_COC_FORM_01_070105_REV01_01

S:\Login\FORMS\COC FORM 01.xls

NEA
NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
5/11/2010
SPECTRUM ANALYTICAL
830 SILVER ST
AGAWAM, MA 01001
CONTACT: NICOLE LEJA

CELEBRATING 20 YEARS 1989 NEA 2009

CUSTOMER ID:	WAREHOUSE	**NEA ID:** AN04537	**NEA LRF:** 10040179-01
MATRIX:	POLYURETHANE FOAM	**DATE SAMPLED:** 04/23/2010	**TIME:** 11:28
DATE RECEIVED:	4/27/2010 **TIME:** 10:24	**PROJECT:**	78-98 RELAESCHI DRIVE
SAMPLED BY:	A. KOVAL	**LOCATION:**	NORTH HAVEN, CT
CUSTOMER PO:	N/A	**LAB ELAP#:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method TO-4A					
Aroclor 1016	ND	0.000309	ug/m³	05/05/2010	U
Aroclor 1221	0.00120	0.000309	ug/m³	05/05/2010	PB
Aroclor 1232	ND	0.000309	ug/m³	05/05/2010	U
Aroclor 1242	0.00115	0.000309	ug/m³	05/05/2010	AD
Aroclor 1248	ND	0.000309	ug/m³	05/05/2010	U
Aroclor 1254	ND	0.000309	ug/m³	05/05/2010	U
Aroclor 1260	ND	0.000309	ug/m³	05/05/2010	U
Total PCB Amount > Reporting Limit	0.002350				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.

AUTHORIZED SIGNATURE:

William A. Kotas
Sr. Laboratory Representative
Robert E. Wagner
Laboratory Director

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055 Email : information@nealab.com

NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
5/11/2010
SPECTRUM ANALYTICAL
830 SILVER ST
AGAWAM, MA 01001
CONTACT: NICOLE LEJA

CELEBRATING 20 YEARS 1989 NEA 2009

CUSTOMER ID:	DUP	**NEA ID:** AN04538	**NEA LRF:** 10040179-02
MATRIX:	POLYURETHANE FOAM	**DATE SAMPLED:** 04/23/2010	**TIME:** 11:53
DATE RECEIVED:	4/27/2010 **TIME:** 10:24	**PROJECT:**	78-98 RELAESCHI DRIVE
SAMPLED BY:	A. KOVAL	**LOCATION:**	NORTH HAVEN, CT
CUSTOMER PO:	N/A	**LAB ELAP#:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method TO-4A					
Aroclor 1016	ND	0.000330	ug/m³	05/05/2010	U
Aroclor 1221	0.00130	0.000330	ug/m³	05/05/2010	PB
Aroclor 1232	ND	0.000330	ug/m³	05/05/2010	U
Aroclor 1242	0.000974	0.000330	ug/m³	05/05/2010	AD
Aroclor 1248	ND	0.000330	ug/m³	05/05/2010	U
Aroclor 1254	0.000203	0.000330	ug/m³	05/05/2010	PF,J
Aroclor 1260	ND	0.000330	ug/m³	05/05/2010	U
Total PCB Amount > Reporting Limit	0.002480				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
PF-Aroclor 1254 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1254 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.

AUTHORIZED SIGNATURE:

William A. Kotas
Sr. Laboratory Representative
Robert B. Wagner
Laboratory Director

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055 Email : information@nealab.com

NEA
NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
5/11/2010
SPECTRUM ANALYTICAL
830 SILVER ST
AGAWAM, MA 01001
CONTACT: NICOLE LEJA

CELEBRATING 20 YEARS 1989 NEA 2009

CUSTOMER ID:	AMBIENT	**NEA ID:** AN04539	**NEA LRF:** 10040179-03
MATRIX:	POLYURETHANE FOAM	**DATE SAMPLED:** 04/23/2010	**TIME:** 12:06
DATE RECEIVED:	4/27/2010 **TIME:** 10:24	**PROJECT:**	78-98 RELAESCHI DRIVE
SAMPLED BY:	A. KOVAL	**LOCATION:**	NORTH HAVEN, CT
CUSTOMER PO:	N/A	**LAB ELAP#:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method TO-4A					
Aroclor 1016	ND	0.000347	ug/m³	05/05/2010	U
Aroclor 1221	0.000927	0.000347	ug/m³	05/05/2010	PB
Aroclor 1232	ND	0.000347	ug/m³	05/05/2010	U
Aroclor 1242	0.000706	0.000347	ug/m³	05/05/2010	AD
Aroclor 1248	ND	0.000347	ug/m³	05/05/2010	U
Aroclor 1254	ND	0.000347	ug/m³	05/05/2010	U
Aroclor 1260	ND	0.000347	ug/m³	05/05/2010	U
Total PCB Amount > Reporting Limit	0.001633				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.

AUTHORIZED SIGNATURE:

William A. Kotas
Sr. Laboratory Representative
Robert E. Wagner
Laboratory Director

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055 Email : information@nealab.com

NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
5/11/2010
SPECTRUM ANALYTICAL
830 SILVER ST
AGAWAM, MA 01001
CONTACT: NICOLE LEJA

CELEBRATING 20 YEARS 1989 NEA 2009

CUSTOMER ID:	OFFICE	**NEA ID:** AN04540	**NEA LRF:** 10040179-04
MATRIX:	POLYURETHANE FOAM	**DATE SAMPLED:** 04/23/2010	**TIME:** 12:22
DATE RECEIVED:	4/27/2010 **TIME:** 10:24	**PROJECT:**	78-98 RELAESCHI DRIVE
SAMPLED BY:	A. KOVAL	**LOCATION:**	NORTH HAVEN, CT
CUSTOMER PO:	N/A	**LAB ELAP#:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method TO-4A					
Aroclor 1016	ND	0.000348	ug/m³	05/06/2010	U
Aroclor 1221	0.00176	0.000348	ug/m³	05/06/2010	PB
Aroclor 1232	ND	0.000348	ug/m³	05/06/2010	U
Aroclor 1242	0.000845	0.000348	ug/m³	05/06/2010	AD
Aroclor 1248	ND	0.000348	ug/m³	05/06/2010	U
Aroclor 1254	0.000276	0.000348	ug/m³	05/06/2010	PF,J
Aroclor 1260	ND	0.000348	ug/m³	05/06/2010	U
Total PCB Amount > Reporting Limit	0.002881				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
PF-Aroclor 1254 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1254 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.

AUTHORIZED SIGNATURE:

William A. Kotas
Sr. Laboratory Representative
Robert E. Wagner
Laboratory Director

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055 Email : information@nealab.com

NEA
NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
5/11/2010
SPECTRUM ANALYTICAL
830 SILVER ST
AGAWAM, MA 01001
CONTACT: NICOLE LEJA

CELEBRATING 20 YEARS 1988 NEA 2008

CUSTOMER ID:	AMARR	**NEA ID:** AN04541	**NEA LRF:** 10040179-05
MATRIX:	POLYURETHANE FOAM	**DATE SAMPLED:** 04/23/2010	**TIME:** 12:52
DATE RECEIVED:	4/27/2010 **TIME:** 10:24	**PROJECT:**	78-98 RELAESCHI DRIVE
SAMPLED BY:	A. KOVAL	**LOCATION:**	NORTH HAVEN, CT
CUSTOMER PO:	N/A	**LAB ELAP#:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method TO-4A					
Aroclor 1016	ND	0.000344	ug/m³	05/05/2010	U
Aroclor 1221	0.00268	0.000344	ug/m³	05/05/2010	PB
Aroclor 1232	ND	0.000344	ug/m³	05/05/2010	U
Aroclor 1242	0.00179	0.000344	ug/m³	05/05/2010	AD
Aroclor 1248	ND	0.000344	ug/m³	05/05/2010	U
Aroclor 1254	0.000623	0.000344	ug/m³	05/05/2010	PF
Aroclor 1260	ND	0.000344	ug/m³	05/05/2010	U
Total PCB Amount > Reporting Limit	0.005090				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
PF-Aroclor 1254 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1254 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.

AUTHORIZED SIGNATURE:

William A. Kotas
Sr. Laboratory Representative
Robert E. Wagner
Laboratory Director

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055 Email : information@nealab.com

NEA
NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
5/11/2010
SPECTRUM ANALYTICAL
830 SILVER ST
AGAWAM, MA 01001
CONTACT: NICOLE LEJA

CELEBRATING 20 YEARS 1989 NEA 2009

CUSTOMER ID:	FIELD SPIKE-8082	**NEA ID:** AN04542	**NEA LRF:** 10040179-06
MATRIX:	POLYURETHANE FOAM	**DATE SAMPLED:** 04/23/2010	**TIME:** N/A
DATE RECEIVED:	4/27/2010 **TIME:** 10:24	**PROJECT:**	78-98 RELAESCHI DRIVE
SAMPLED BY:	A. KOVAL	**LOCATION:**	NORTH HAVEN, CT
CUSTOMER PO:	N/A	**LAB ELAP#:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method TO-4A					
Aroclor 1016	ND	0.100	ug	05/05/2010	U
Aroclor 1221	ND	0.100	ug	05/05/2010	U
Aroclor 1232	ND	0.100	ug	05/05/2010	U
Aroclor 1242	ND	0.100	ug	05/05/2010	U
Aroclor 1248	ND	0.100	ug	05/05/2010	U
Aroclor 1254	0.958	0.100	ug	05/05/2010	
Aroclor 1260	ND	0.100	ug	05/05/2010	U
Total PCB Amount > Reporting Limit	0.958				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas
Sr. Laboratory Representative
Robert E. Wagner
Laboratory Director

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055 Email : information@nealab.com

SB11047 GZ

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information @nealab.com

LRF # _____
(NEA USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ⊗ DISPOSAL BY NORTHEAST ANALYTICAL
- ○ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): Stantec Consulting Services, Inc.	PROJECT#/PROJECT NAME: 78-98 Rebecchi Drive
PROJECT MANAGER: John Insall	PROJECT LOCATION (CITY/STATE) ADDRESS: North Haven, CT
PHONE: (860) 948-1628	
SAMPLED BY: (Please Print) Anthony Koval	REQUIRED TURN AROUND TIME:
SAMPLING FIRM: Stantec Consulting Services, Inc	NAME OF COURIER (IF USED): Spectrum Analytical
	Data Report: ☐ CLP* ☐ Certificates Only
ELECTRONIC RESULTS FORMAT: .PDF ☐ EXCEL (.CSV) ☐	E-MAIL ADDRESS:
FAXED RESULTS ☐	FAX #:

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE: 8
BOTTLE TYPE: PUF
BOTTLE SIZE:

PRESERVATIVE KEY: 0 - NONE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other 4°C

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (NEA USE ONLY)	NUMBER OF CONTAINERS	ABS - TO-4A	REMARKS:
Warehouse	4/23/10	1128	Air	G	11047-01	1	X	
Dup	4/23/10	1153	↓	↓	-02	1	X	Top edge of PUF glass chipped
Ambient	4/23/10	1206			03	1	X	Bottom edge & PUF glass chipped
Office	4/23/10	1322			04	1	X	Top + Bottom edge chipped
Annex	4/23/10	1252	↓	↓	05	1	X	Top + Bottom chipped

AMBIENT OR CHILLED	TEMP	COC TAPE: Y N	PROPERLY PRESERVED: Y N
RECEIVED BROKEN OR LEAKING	Y N	COC DISCREPANCIES: Y N	RECVD W/I HOLDING TIMES: Y N

OTHER NOTES:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:
PRINTED NAME: Anthony G. Koval	PRINTED NAME: NOWLES	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
COMPANY: Stantec	COMPANY:	COMPANY:	COMPANY:	COMPANY:	COMPANY:
DATE/TIME: 4/23/10 1645	DATE/TIME: 4/23/10 1645	DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

* CLP LIKE DATA PACKAGE ADDITIONAL COST

5.0